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Title:
Perfect score:
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Listing first 45 summaries
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A Geneseq_23Sep04:*
1: geneseqp1980s:*
2: geneseqp1990s:*
3: geneseqp2001s:*
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5: geneseqp2003as:*
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7: geneseqp2003bs:*
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391
1 TELRCQCIRTHSTPFHPKFI.....EKWVQKVVQVFVKRAEKQDP 72
                                                                                                                                                                                                                                                                                                                                                                                        2002273 seqs, 358729299 residues
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Copyright (c) 1993 - 2004 Compugen Ltd.
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

8		24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	œ	7	6	υ	4	ω	N	↦	Result No.
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Disclosure; Find the present section of the present section substitution substitution	-PSE	JYSA Ordo	01-MAR-2002; 01-MAR-2001;	18C- 18C- 1200	Bos taurus Synthetic.	ıte	CXCL8 (3-	ABB7996	ULT 1 79966 ABB7996		22225556666666666666666666666666666666
sure; esent prote tution tution	2002-723:)B; ABQ81: ILR-CXC clited path ed acute) 4	-2002;	difference difference 270565-A2. P-2002.	tic.	la.	3-73)1	66; -2002	o.		NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
age 60-	2-723251/78. ABQ81434. CXC chemokine ant. pathology, e.g.		2002WO-		1	chemokine; receptor mmatory; vasotropic	ъ	(first)	standard; p:		77777777777777777777777777777777777777
61; 6 is t sing nativ nativ	e ant e.g. atory	HEWAN	CA000271 0273181P	8 8 8 8		recep	, ELR-	entry)	protein;		777777777777777777777777777777777777777
ซี ำัลดา	agon isch dis	118	271 81P	ild ild	2	tor pic	-cxc	_			94444999999999999999999999999999999999
English. rotein sequence o acids 3-73 of y-31 amino acid s-11 residue by	ist, useful for l emia-reperfusion tress syndrome.	SASKATCHEWAN TECHNOLOGIES INC. i.F;		"wild-type Lys substituted" "wild-type Gly substituted	ionation/Onalifiers	; antagonist; CXC; antibacterial;	(C chemokine receptor		72 AA.	ALIGNMENTS	AAY24937 AAB29166 ABG73910 ADEB0881 ADP17069 AAP90078 AAR99814 AAX83202 ABU09837 ABU09837 ABU07140 AAW96737 ABU67740 AAW96737 ABU67740 AAW96737 ABU67740 AAW007374 AAW13168 AAW13168 AAW20027 AAW13168 AAW20027 AAW14160 AAW29165 AAW29165 AAW29165
of a mutated bovine bovine the wild-type sequence with residue by Pro, and Arg. Claimed ELR-CXC	treating a CXC chemokine- injury or endotoxemia-			ted by Arg" ted by Pro" .		<pre>IL8; cattle; nephrotropic; mutant;</pre>	or antagonist.				Aay24937 Neutrophi Aae29166 Human int Abg73910 Human Neu Ade80881 II-8 chem Adf17069 Human alb Adf17069 Human alb Aap90078 Human neu Aar99814 Interleuk Aay83202 Synthetic Abu09837 Full leng Abu09837 Full leng Abg7184 Human Int Aaw96737 Malrose b Abu67740 Factor Xa Abp0017374 Amino aci Aap99017 Human neu Aar13168 [Ala II-8 Aay69029 Amino aci Aap62027 Human int Aaw620027 Human int Aae29165 Human int Aae29165 Human int

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RESULT 2
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Best Local S
Matches 72
Gordon JR,
                                                                                                                                                           01-MAR-2002; 2002WO-CA000271
                                                                                                        01-MAR-2001; 2001US-0273181P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ELR-CXC; chemokine; receptor;
antiinflammatory; vasotropic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Bovine CXCL8(3-73)G31P, ELR-CXC chemokine receptor antagonist.
                                                  (UYSA-) UNIV SASKATCHEWAN TECHNOLOGIES INC
                                                                                                                                                                                                                            12-SEP-2002
                                                                                                                                                                                                                                                                                     WO200270565-A2
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                                                                                                                                                                                                                                                                                                                                                                   Location/Qualifiers 29
                                                                                                                                                                                                                                                                                                                               /note= "wild-type Gly substituted by Pro'
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Pred. No. 2.2e-37;
); Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               antagonist; CXCL8; cattle;
antibacterial; nephrotropi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               nephrotropic;
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XX ABB7
XX I9-D
XX CXCL
XX ELR-
KW ELR-
KW mute
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
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Best Local
                                                      Misc-difference
                                                                                       Misc-difference
                                                                                                                                                                                                                                                     ELR-CXC; chemokine; receptor; antagonist; CXCL8; cattle;
antiinflammatory; vasotropic; antibacterial; nephrotropic; mutant;
   WO200270565-A2
                                                                                                                                                                                     Bos taurus.
Synthetic.
                                                                                                                                                                                                                                           mutein.
                                                                                                                                                                                                                                                                                                        CXCL8(3-73)K11R/G31P/P32G, ELR-CXC chemokine receptor antagonist.
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                                                                                                                                                                                                                                                                                                                                                                                            ABB79967;
                                                                                                                              Misc-difference
                                                                                                                                                                                                                                                                                                                                                                                                                       ABB79967 standard; protein; 72 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 72 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 200
N-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New ELR-CXC chemokine antagonist, useful for treating a CXC chemokine-mediated pathology, e.g. ischemia-reperfusion injury or endotoxemia-induced acute respiratory distress syndrome.
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                                                                                                                              Location/Qualifiers
                               /note= "wild-type Pro substituted by Gly"
                                                              note= "wild-type Gly substituted
                                                                                                           note=
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                                                                                                     "wild-type Lys substituted
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Pred. No. 4.9e-37;
1; Mismatches 0
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Required to a vild-type bovine CXCL8 sequence, but having

CC a truncation of the first 2 amino acid residues of bovine CXCL8, and

CC a truncation of the first 2 amino acid residues of bovine CXCL8, and

CC daving the following amino acid substitutions: Arg for Lys-11 and Pro for

CC Gly-31 (see ABB79966), Arg for Lys-11, Pro for Gly-31, and Gly for Pro-32

CC (present sequence); or Arg for Lys-11, Ser for Thr-12, Phe for His-13 and

CC Pro for Gly-31 (see ABB7966). These ELR-CXC chemokine antagonists are

CC capable of binding to CXC receptors (CXR1 or CXCR2) in mammalian

CC inflammatory cells. The invention provides these novel ELR-CXC chemokine

CC cells (bacteria, protozoa, yeast, fungl, algae, plant cells and animal

CC cells) and viral hosts containing an expression vector, methods of

CC production, and methods of using these for treating an ELR-CXC chemokine-

CC mediated pathology in a bovid or a human, especially ischaemia-

CC mastitis, where the chemokine binds to CXCR1 or CXCR2 receptors (all
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
 Bos taurus.
                                                   ELR-CXC; chemokine
antiinflammatory;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CXCLB protein comprising amino acids 3-73 of the wild-type sequence substitution of the native Gly-31 amino acid residue by Pro, and substitution of the native Lys-11 residue by Arg. Claimed ELR-CXC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present sequence is the protein sequence of a mutated bovine bovine CXCL8 protein comprising amino acids 3-73 of the wild-type sequence with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New ELR-CXC chemokine antagonist, useful for treating a CXC chemokine-mediated pathology, e.g. ischemia-reperfusion injury or endotoxemia-
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                                                                                                          Bovine CXCL8(3-73)K11R, ELR-CXC chemokine receptor antagonist.
                                                                                                                                               19-DEC-2002
                                                                                                                                                                                                                   ABB79965 standard; protein; 72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure; Page 62; 64pp; English.
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acute respiratory distress syndrome.
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                                                                      chemokine;
                                                                                                                                                                                                                                                                                                                                                                                                          TELRCQCIRTHSTPFHPKFIKELRVIESPPHCENSEIIVKLTNGNEVCLNPKEKWVQKVV 60
                                                                                                                                                                                                                                                                                                                                                                                   TELRCOCIRTHSTPFHPKFIKELRVIESPGHCENSEIIVKLINGNEVCLNPKEKWVQKVV 60
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                               (first entry)
                                                     receptor;vasotropic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           97.7%;
                                                                                                                                                                                                                                                                                                               72
                                                                                                                                                                                                                                                                                                                                                                                                                                                            0
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 382; DB 5;
Pred. No. 2.4e-36;
0; Mismatches 1
                                                       antagonist; CXCL8; cattle;
antibacterial; nephrotropi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 syndrome.
                                                       nephrotropic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                            1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 72
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
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RESULT 5
ABB79969
ID ABB7
XX
AC ABB7
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DT 19-D
XX
DE CXCL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           chemokine antagonists of the invention comprise an amino acid substantially equivalent to a wild-type bovine CXCL8 sequence, but having a truncation of the first 2 amino acid residues of bovine CXCL8, and carding the following amino acid substitutions: Arg for Lys-11 and Pro for Gly-31 (see ABB79966); Arg for Lys-11, Pro for Gly-31, and Gly for Pro-32 (see ABB79967); or Arg for Lys-11, Ser for Thr-12, Phe for His-13 and Pro for Gly-31 (see ABB79969). These ELR-CXC chemokine antagonists are capable of binding to CXC receptors (CXCR1 or CXCR2) in mammalian cinflammatory cells. The invention provides these novel ELR-CXC chemokine receptor antagonists, polynucleotides encoding them, vectors and host cells (bacteria, protozoa, yeast, fungi, algae, plant cells and animal complex containing an expression vector, methods of cells) and viral hosts containing an expression vector, methods of creperfusion injury, endotoxaemia-induced a pathology in a bovid or a human, especially ischaemia-complex-type glomerulonephritis, bacterial pneumonia, or mastiris, where the chemokine binds to CXCR1 or CXCR2 receptors (all
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Key Applemente
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present sequence is the protein sequence of a mutated bovine bovine CXCL8 protein comprising amino acids 3-73 of the wild-type sequence with substitution of the native Lys-11 residue by Arg. Claimed ELR-CXC
                                                   19-DEC-2002
                                                                                                       ABB79969;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure; Page 58; 64pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New ELR-CXC chemokine antagonist, useful for treating a CXC chemokine-mediated pathology, e.g. ischemia-reperfusion injury or endotoxemia-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  N-PSDB; ABQ81433.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2002-723251/78.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gordon JR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (UYSA-) UNIV SASKATCHEWAN TECHNOLOGIES INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   01-MAR-2001; 2001US-0273181P
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                                                                                                                                                        ABB79969 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             induced
                                                                                                                                                                                                                                                                                                                                       61
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     71;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           acute respiratory distress syndrome.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                                                                                                                                                                         QVFVKRAEKQDP 72
                                                                                                                                                                                                                                                                                                                                                                                                                      TELRCQCIRTHSTPFHPKFIKELRVIESPPHCENSEIIVKLINGNEVCLNPKEKWVQKVV 60
                                                                                                                                                                                                                                                                                        QVFVKRAEKQDP
                                                                                                                                                                                                                                                                                                                                                                                             TELRCQCIRTHSTPFHPKFIKELRVIESGPHCENSEIIVKLTNGNEVCLNPKEKWVQKVV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Li F;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A,
                                                 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Location/Qualifiers
                                                                                                                                                        protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           97.7%;
                                                                                                                                                                                                                                                                                        72
                                                                                                                                                           72
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 382; DB 5;
Pred. No. 2.4e-36;
0; Mismatches 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
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CXCL8(3-73)K11R/T12S/H13F/G31P, CXC chemokine receptor antagonist.

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The present sequence is the protein sequence of a mutated bovine CC XCC18 protein comprising amino acids 3-73 of the wild-type sequence with CC substitution of the native Lys-11 residue by Arg, native Thr-12 by Ser, native His-13 by Phe, and native Gly-31 by Pro. Claimed ELR-CXC chemokine CC equivalent to a wild-type bovine CXC18 sequence, but having a truncation of the first 2 amino acid residues of bovine CXC18, and having the CC following maino acid substitutions: Arg for Lys-11, and Pro for Gly-31 (see ABB79967); or Arg for Lys-11, Pro for Gly-31, and Gly for Pro-32 (see ABB79967); or Arg for Lys-11, Pro for Gly-31, and Gly for Pro-32 (see Gly-31 (present sequence). The ELR-CXC chemokine antagonists are capable of binding to CXC receptors (CXCR1 or CXCR2) in mammalian inflammatory cantagonists, polynucleotides encoding them, vectors and host cells (bacteria, protozoa, yeast, fungi, algae, plant cells and animal cells) and wiral hosts containing an expression vector, methods of production, and wiral hosts containing an expression vector, methods of production, pathology in a bovid or a human, especially ischaemia-reperfusion injury, centemotiane binds to CXCR1 or CXCR2 or cXCR2 or asstitis, where the chemotiane binds to CXCR1 or CXCR2 receptors (all claimed). Experimental centemotiane showed that amino acid substitutions at Thr-12 and His-13 contentially reduced the antagonist activities of CXCR16(3-73)K11R/G31P mutant sequence given in the Sequence Listing (see ABB79966)
                                                                                                   Matches
                                                                                                                     Query Match
Best Local Similarity
                                                                                                                                                                                                       Sequence 72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New ELR-CXC chemokine antagonist, useful for treating a CXC chemokine-mediated pathology, e.g. ischemia-reperfusion injury or endotoxemia-induced acute respiratory distress syndrome.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gordon JR,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Synthetic.
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antiinflammatory; vasotropic; antibacterial; nephrotropic; mutant;
                                                                                              69;
TELRCQCIRTHSTPFHPKFIKELRVIESPPHCENSEIIVKLTNGNEVCLNPKEKWVQKVV
                                                                                                                                                                                                       Ä
                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Page; 64pp;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /note= "wild-type Lys substituted
10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Location/Qualifiers
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                                                                                                               93.6%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          English.
                                                                                     Score 366; DB 5;
Pred. No. 1.7e-34;
1; Mismatches 2
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                                                                                     2
                                                                                                                                   Length 72
                                                                                  Indels
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                                                                                  <u>,</u>
                                                                               Gaps
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CXCLB protein comprising amino acids 3-73 of the wild-type sequence with CXCLB protein comprising amino acids 3-73 of the wild-type sequence with CXCLB protein comprising amino acids 3-73 of the wild-type sequence with CXCLB protein comprising amino acid and the native His-13 residue by Arg, the native Thr-12 cresidue by Ser, and the native His-13 residue by Phe. Claimed EIR-CXC CC chemokine antagonists of the invention comprise an amino acid substantially equivalent to a wild-type bovine CXCLB sequence, but having carried the following amino acid substitutions: Arg for Lys-11 and Pro for CC Awing the following amino acid substitutions: Arg for Lys-11 and Pro for CC (Gly-31 (see ABB79966); Arg for Lys-11, Pro for Gly-31, and Gly for Pro-32 (see ABB79967); or Arg for Lys-11, Ser for Thr-12, Phe for His-13 and Pro CC or Gly-31 (see ABB79969). These EIR-CXC chemokine antagonists are CC capable of binding to CXC receptors (CXCR1 or CXCR2) in mammalian cc capable of binding to CXC receptors (CXCR1 or CXCR2) in mammalian cc cells. The invention provides these novel EIR-CXC chemokine cells (bacteria, protozoa, yeast, fungi, algae, plant cells and animal cells and viral hosts containing an expression vector, methods of mediated pathology in a bovid or a human, especially ischaemia. CXC reperfusion injury, endotoxaemia-induced acute respiratory distress containing an expression vector and solutions or sportatory distress syndrome, immune complex-type glomerulonephritis, bacterial pneumonia, or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New BLR-CXC chemokine antagonist, useful for treating a CXC chemokine-mediated pathology, e.g. ischemia-reperfusion injury or endotoxemia-induced acute respiratory distress syndrome.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Disclosure; Page 63-64; 64pp; English.
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antiinflammatory; vasotropic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (UYSA-) UNIV SASKATCHEWAN TECHNOLOGIES INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELRCQCIRSFSTPFHPKFIKELRVIESPPHRENSEIIVKLTNGNEVCLNPKEKWVQKVV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Li F;
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il
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        note=
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ELR-CXC chemokine receptor antagonist.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   72
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antibacterial; nephrotropic; mutant;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ã
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              밁
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Best Local :
                     The present sequence represents a porcine interleukin-8 (IL-8). IL-8 and neutrophil activating peptide 2 (NAP-2) are alpha-chemokines. The specification describes a polypeptide which promotes bone growth in mammals, and contains subsequences of variants of NAP-2. The polypeptide has bone stimulatory activity, and increases bone apposition rate. The polypeptide is used in the prevention and treatment of a bone reduction related disease. It is used for promoting bone growth and increasing bon prowth, especially to treat osteoporosis. Antibodies against the polypeptide could be used to determine the presence of the polypeptides in blood serum to find subjects which are deficient in the polypeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                mastitis, where the chemokine binds to CXCR1 or CXCR2 receptors (all claimed). Experimental results showed that amino acid substitutions of Thr-12 and His-13 substantially reduced the antagonist activities of CXCL8(3-73)K11R/G31P
 Sequence
                                                                                                                                                      Disclosure;
                                                                                                                                                                              Polypeptide variant is v
                                                                                                                                                                                                                WPI; 2000-466127/40.
                                                                                                                                                                                                                                                                                                                                                                                                Misc-difference
                                                                                                                                                                                                                                                                                                                                                                                                                      Misc-difference
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Neutrophil activating bone apposition; bone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Amino
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     07-NOV-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAB07714;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAB07714 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                     13-JAN-1999;
                                                                                                                                                                                                                                                                                                            13-JAN-2000;
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                                                                                                                                                                                                                                                                                                                                    20-JUL-2000
                                                                                                                                                                                                                                                                (OSTE-)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    μ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            68;
                                                                                                                                                                                                                                                                OSTEOPHARM
                                                                                                                                                                           ide comprising a fragment of a neutrophil-activating is used for promoting bone growth and treating osteo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Similarity
  103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELRCOCIRTHSTPFHPKFIKELRVIESPPHCENSEIIVKLTNGNEVCLNPKEKWVQKVV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              QVFVKRAEKQDP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     QVFVKRAEKQDP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELRCQCIRSFSTPFHPKFIKELRVIESGPHRENSEIIVKLTNGNEVCLNPKEKWVQKVV
                                                                                                                                                      Page 30;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
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                                                                                                                                                                                                                                                                                                            2000WO-CA000031.
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                                                                                                                                                                                                                                                                                      99US-00229304
                                                                                                                                                                                                                                                                                                                                                                                                                     Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                56
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                                                                                                                                                                                                                                                                                                                                                                                                           'note=
                                                                                                                                                                                                                                                                INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              of.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     entry.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      91.3%;
                                                                                                                                                     35pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            peptide 2; NAP-2; bone growth; bone stimulatory;
reduction disease; osteoporosis; interleukin-8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              72
                                                                                                                                                                                                                                                                                                                                                                                  "unspecified
                                                                                                                                                                                                                                                                                                                                                                                                          "unspecified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             porcine
                                                                                                                                                      English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 357; DB
Pred. No. 1.8e
1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             interleukin-8 (IL-8).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      357; DB 5;
No. 1.8e-33;
                                                                                                                                                                                                                                                                                                                                                                                   amino
                                                                                                                                                                                                                                                                                                                                                                                                          amino
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          osteoporosis;
                                                                                                                                                                                                                                                                                                                                                                                                           acid
                                                                                                                                                                                                                                                                                                                                                                                   acid given
                                                                                                                                                                                                                                                                                                                                                                                                          given
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                   86
                                                                                                                                                                                                                                                                                                                                                                                                           86
                                                                                                                                                                           vating peptide osteoporosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   72
                                                                                                                                                                                                                                                                                                                                                                                    Gle"
                                                                                                                                                                                                                                                                                                                                                                                                           Gle"
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                                                          bone
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ELRCQCIRTHSTPFHPKFIKELRVIESPPHCENSEIIVKLTNGNEVCLNPKEKWVQKVVQ

Query Match Best Local S Matches 52

Similarity

74.9%; 77.6%;

Conservative

9,

Score 293; DB 4; Pred. No. 4.5e-26; 9; Mismatches 6;

Length 72;

Indels

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Sequence 72

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RESULT 8
AAB86153
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Best Local S
Matches 58
                    This invention describes a novel preparation of correctly processed interleukin-8 (IL-8), or its muteins, by expressing them as fusions withe alpha-factor signal sequence (A) in yeast, with subsequent purification by ion-exchange and reverse-phase chromatography. The products of the invention have anticancer activity and can be used in method to produce II-8 muteins that are useful for (i) treatment of cancer and (ii) for identifying II-8 antagonists, active at the CXCR1 CXCR2 receptors. When expressed as a fusion with (A), II-8 or its mute are produced in high yield, free from endotoxins and with the correct terminus. The method is suitable for large scale production. This sequence represents the human mutant II-8, Y13H which is used in the method described in the invention
                                                                                                                                                                                              Example 3; Page 13; 14pp; German
                                                                                                                                                                                                                        signal
                                                                                                                                                                                                                                    Preparing correctly processed interleukin-8, anticancer agents, by expression in yeast as
                                                                                                                                                                                                                                                                            WPI; 2001-309395/33.
N-PSDB; AAH20503.
                                                                                                                                                                                                                                                                                                                                                                       02-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                  02-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                            10-MAY-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                   DE19952622-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CXCR2 receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                fusion construct; anticancer; cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human interleukin-8 mutant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAB86153;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAB86153 standard; protein; 72
                                                                                                                                                                                                                                                                                                                   Apeler
                                                                                                                                                                                                                                                                                                                                             (FARB ) BAYER AG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              [nterleukin-8; IL-8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3
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                                                                                                                                                                                                                        sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              58;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity 84.:
58; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           VFVKRAEKO 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ELRCQCIRTHSTPFHPKFIKELRVIESPPHCENSEIIVKLTNGNEVCLNPKEKWVQKVVQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        IFLKRTEKQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ELRCQCINTHSTPFHPKFIKXLRVIXSGFHCENSEIIVKLVNGKEVCLDPKEKWVQKVVQ 90
                                                                                                                                                                                                                                                                                                                      Schneider
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first
                                                                                                                                                                                                                                                                                                                                                                       99DE-01052622
                                                                                                                                                                                                                                                                                                                                                                                                  99DE-01052622
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       79.8%;
84.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              human;
                                                                                                                                                                                                                                                                                                                   ۲
                                                                                                                                                                                                                                                                                                                      Gottschalk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Y13H protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  mutant; mutein; alpha-factor signal sequence;
r; cancer treatment; CXCR1 receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 312; DB 3;
Pred. No. 4.4e-28;
3; Mismatches 8
                                                                                                                                                                                                                                                                                                                    Ç
                                                                                                                                                                                                                                                                                                                      Schroeder W;
                                                                                                                                                                                                                                      or muteins, useful as fusion with alpha-factor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 103
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                                                                che CXCR1 and
cits muteins
correct N-
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                                                                                                                   in a
                                                                                                                                                           with
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RESULT 9
AAW25706
ID AAW2
XX AAW2
XX AAW2
XX AAW2
XX INT
X
           AAR38081
ID AAR
                                             RESULT 10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      В
                                                                                                                                                                                                                                           Query Match
Best Local S
Matches 52
           AAR38081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      20-JUN-1995;
18-OCT-1995;
05-APR-1996;
                                                                                                                                                                                                                                                                                                                                       The sequences given in AAW25701-14 represent interleukin-8 (IL-8) mutant which are capable of binding to IL-8 receptors. They can be used for modulating an IL-8 receptor-mediated biological response. The mutations were introduced into the human IL-8 coding sequence by overlap PCR
                                                                                                                                                                                                                                                                                                               Sequence 72 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New mutant interleukin-8 poly:peptide(s) - interleukin-8 receptor-mediated biological
                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 1; Page 34; 40pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 1997-087095/08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Wernette-Hammond ME, Tekamp-Olson P;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                09-JAN-1997.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Misc-difference
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mutant human IL-8,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAW25706 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            18-JUN-1996;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Misc-difference
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Interleukin-8;
IL-8 receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (CHIR ) CHIRON CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        17-OCT-1997
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                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4
                                                                                                                                                                               ELRCQCIRTHSTPFHPKFIKELRVIESPPHCENSEIIVKLTNGNEVCLNPKEKWVQKVVQ
       standard;
                                                                                                 KFLKRAE
                                                                                                                                 VFVKRAE 68
                                                                                                                                                                     ELRCQCIKTYSKPFHPKFI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                KFLKRAE 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ELRCQCIKTHSKPFHPKFIKELRVIESGPHCANTEIIVKLSDGRELCLDPKENWVQRVVE 63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                VFVKRAE
                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      95US-0002774P.
95US-0005385P.
96US-00628455.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /label= R47K
+ 52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        IL-8; IL-8 receptor-mediated biological response; mutant;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             overlap PCR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          96WO-US010537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
                                                                                                 70
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                68
       protein; 69 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    R47K, D52N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         protein;
                                                                                                                                                                                                                                                      74.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Shyamala
                                                                                                                                                                                                                                     ; Score 292; DB
; Pred. No. 5.9e
9; Mismatches
                                                                                                                                                                72
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Siani M,
                                                                                                                                                                                                                                   DB 2; I
5.9e-26;
1es 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       used for modulating responses.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Blaney J;
                                                                                                                                                                                                                                                                       Length
                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                       72
                                                                                                                                                                                                                                   0;
                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                mutante
                                                                                                                                                                63
                                                                                                                                                                                                 61
                                                                                                                                                                                                                                   0
RESULT 11
AAR38080
ID AAR38
XX
AAR38
AC AAR38
DT 25-MA
DT 13-OC
XX
DE Human
XX
AV
ANALC
XX
ANALC
XX
ANALC
XX
ANALC
XX
ANALC
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ANALC
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MO931
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
Matches 52; Conserv
                  WO9311159-A1.
                                                    Homo sapiens.
                                                                                                                      Human interleukin-8 monomer.
                                                                                                                                                            25-MAR-2003
13-OCT-1993
                                                                                                                                                                                                                 AAR38080;
                                                                                                                                                                                                                                               AAR38080 standard; protein; 72
                                                                                      Analogues; modified;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 69 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The sequence is that of an analogue of interleukin-8 (IL-8) comprising IL-8 residues 4-72. It is able to bind neutrophils and act as a competitive antagonist of IL-8, i.e. it can be used to treat inflammation, e.g. by intravenous injection or oral admin. It can act as a neutrophil activator and so can be used to stimulate an inflammatory response. (Updated on -25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New interleukin-8 analogues modified in specified region - used neutrophil activators or for blocking effect of IL-8 on neutropl for treatment of inflammation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 9; Page 29; 47pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 1993-196997/24.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Clark-Lewis I,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    04-DEC-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        03-DEC-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Analogues; modified; neutrophil activators; antagonists; competitive antagonist; IL-8; inflammation; treatment; cl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             W09311159-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               activity; stimulation; inflammatory response.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Modified human interleukin-8 analogue (4-72)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       25-MAR-2003
13-OCT-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAR38081;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (BIOM-) BIOMEDICAL RES CENT LTD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10-JUN-1993.
                                                                                                                                                                                                                                                                                                                                           61
                                                                                                                                                                                                                                                                                                                                                                         62 VFVKRAE 68
                                                                                                                                                                                                                                                                                                                                                                                                                 ب
                                                                                                                                                                                                                                                                                                                                                                                                                                                   N
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KFLKRAE 67
                                                                                                                                                                                                                                                                                                                                                                                                                              ELRCQCIRTHSTPFHPKFIKELRVIESPPHCENSEIIVKLTNGNEVCLNPKEKWVQKVVQ
                                                                                                                                                                                                                                                                                                                                                                                                           BLRCQCIKTYSKPFHPKFIKELRVIESGPHCANTEIIVKLSDGRELCLDPKENWVQRVVQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                          (revised)
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (revised)
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    91US-00801578.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        92WO-CA000528
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Moser B;
                                                                                    neutrophil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    74.2%;
77.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 290; DB 2;
Pred. No. 9.5e-26;
9; Mismatches 6
                                                                                                                                                                                                                                                  B
                                                                                    activators;
                                                                                    antagonists;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 69;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      neutrophil(s),
                                                                                    IL-8
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Gaps

60 61

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RESULT 12
AAW25704
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                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
                                      20-JUN-1995;
18-OCT-1995;
05-APR-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The sequence is that of the 72-residue form of the interleukin (II-8) monomer. It may be modified to produce biologically active analogues II-8 which are able to bind neutrophils and act as competitive antagonists of II-8, i.e. they can be used to treat inflammation. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New interleukin-8 analogues modified in specified region - neutrophil activators or for blocking effect of IL-8 on neufor treatment of inflammation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 72 AA;
 Wernette-Hammond ME,
                                                                                                09-JAN-1997.
                                                                                                                   WO9700601-A2
                                                                                                                                               Misc-difference
                                                                                                                                                                 Misc-difference
                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                IL-8 receptor;
                                                                                                                                                                                                                         Interleukin-8; IL-8; IL-8 receptor-mediated biological response; mutant;
                                                                                                                                                                                                                                             Mutant
                                                                                                                                                                                                                                                                 17-0CT-1997
                                                                                                                                                                                                                                                                                    AAW25704;
                                                                                                                                                                                                                                                                                                      AAW25704 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; Page 8; 47pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 1993-196997/24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Clark-Lewis I,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       04-DEC-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          03-DEC-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               10-JUN-1993
                                                                            18-JUN-1996;
                    (CHIR ) CHIRON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (BIOM-) BIOMEDICAL RES CENT LTD
                                                                                                                                                                                                                                                                                                                                                                                                                                          Local
                                                                                                                                                                                                                                                                                                                                                       64
                                                                                                                                                                                                                                                                                                                                                                                                                                   52;
                                                                                                                                                                                                                                                                                                                                                                          62 VFVKRAE
                                                                                                                                                                                                                                             human IL-8, E48K, D52N
                                                                                                                                                                                                                                                                                                                                                                                             4
                                                                                                                                                                                                                                                                                                                                                                                                                N
                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                                                                                                                                                                            ELRCQCIKTYSKPFHPKFIKELRVIESGPHCANTEIIVKLSDGRELCLDPKENWVQRVVQ
                                                                                                                                                                                                                                                                                                                                                                                                       ELRCQCIRTHSTPFHPKFIKELRVIESPPHCENSEIIVKLTNGNEVCLNPKEKWVQKVVQ
                                                                                                                                                                                                                                                                                                                                                       KFLKRAE
                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                (first entry)
                                     95US-0002774P.
95US-0005385P.
96US-00628455.
                   CORP.
                                                                                                                                                                                                               overlap PCR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          92WO-CA000528
                                                                            96WO-US010537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        91US-00801578
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Moser
                                                                                                                                              52
                                                                                                                                                                 Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                          89
                                                                                                                                                                                                                                                                                                                                                       70
                                                                                                                                      'label= D52N
                                                                                                                                                       label= E48K
                                                                                                                                                                                                                                                                                                      protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                          74.2%;
77.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
Shyamala V,
                                                                                                                                                                                                                                                                                                       72
                                                                                                                                                                                                                                                                                                                                                                                                                                   9;
                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 290; DB 2
Pred. No. 1e-25;
9; Mismatches
                                                                                                                                                                                                                                                                                                       ጅ
 Siani
 Z,
                                                                                                                                                                                                                                                                                                                                                                                                                                                    2
Blaney
                                                                                                                                                                                                                                                                                                                                                                                                                                  6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 72;
                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
ū
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                gion - used as
on neutrophil(s),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          used
                                                                                                                                                                                                                                                                                                                                                                                                                                  ٥,
                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
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RESULT 13
AAW25705
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local
                                                                                                                       20-JUN-1995;
18-OCT-1995;
05-APR-1996;
                 New mutant interleukin-8 poly:peptide(s) - used for n interleukin-8 receptor-mediated biological responses.
                                                                                                                                                                                                                                      Misc-difference
                                                                                                                                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                     17-OCT-1997
                                                                                                                                                                                                                                                                                                                                                                                                        AAW25705;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The sequences given in AAW25701-14 represent interleukin-8 (IL-8) mutani which are capable of binding to IL-8 receptors. They can be used for modulating an IL-8 receptor-mediated biological response. The mutations
                                                  WPI; 1997-087095/08
                                                                    Wernette-Hammond ME, Tekamp-Olson P;
                                                                                                                                                               18-JUN-1996;
                                                                                                                                                                                    09-JAN-1997.
                                                                                                                                                                                                        WO9700601-A2
                                                                                                                                                                                                                                                           Misc-difference
                                                                                                                                                                                                                                                                                Misc-difference
                                                                                                                                                                                                                                                                                                                                Interleukin-8; IL-8; IL-8 receptor-mediated biological response; mutant;
IL-8 receptor; overlap PCR.
                                                                                                                                                                                                                                                                                                                                                                 Mutant human
                                                                                                                                                                                                                                                                                                                                                                                                                              AAW25705
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 72 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              were introduced into the human IL-8 coding sequence by overlap PCR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 1; Page 34; 40pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New mutant interleukin-8 poly:peptide(s) - used for rinterleukin-8 receptor-mediated biological responses
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 1997-087095/08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Tekamp-Olson P;
                                                                                                     (CHIR ) CHIRON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                64 KFLKRAE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  51;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                              standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    VEVICAE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ELRCQCIRTHSTPFHPKFIKELRVIESPPHCENSEIIVKLTNGNEVCLNPKEKWVQKVVQ 61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ELRCQCIKTYSKPFHPKFIKELRVIESGPHCANTEIIVKLSDGRKLCLNPKENWVQRVVE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                IL-8, R47K, E48K, D52N
                                                                                                                                                                                                                                                                                                                                                                                     (first entry
                                                                                                                       95US-0002774P.
95US-0005385P.
96US-00628455.
                                                                                                    CORP.
                                                                                                                                                                 96WO-US010537
                                                                                                                                                                                                                                                                              Location/Qualifiers
                                                                                                                                                                                                                                      52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     89
                                                                                                                                                                                                                            /label= D52N
                                                                                                                                                                                                                                                label= E48K
                                                                                                                                                                                                                                                                     label= R47K
                                                                                                                                                                                                                                                                                                                                                                                                                             protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            73.7%;
76.1%;
                                                                                Shyamala
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  10;
                                                                                                                                                                                                                                                                                                                                                                                                                              72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 288; DB 2;
Pred. No. 1.7e-25;
0; Mismatches 6
                                                                                <
                                                                                Siani
                                                                                Z
                             used for modulating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               used for modulating
                                                                               Blaney J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              mutants
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0
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Claim 1; Page 34; 40pp; English

δ

ELRCQCIRTHSTPFHPKFIKELRVIESPPHCENSEIIVKLTNGNEVCLNPKEKWVQKVVQ

Query Match Best Local

51; N

Conservative

10;

Score 288; DB 2; Pred. No. 1.7e-25; 0; Mismatches 6

Length Indels

o,

Gaps

61

Similarity

73.7%;

Sequence

72 AA;

\$8888\$\$

The sequences given in AAW25701-14 represent interleukin-8 (IL-8) mutants which are capable of binding to IL-8 receptors. They can be used for modulating an IL-8 receptor-mediated biological response. The mutations were introduced into the human IL-8 coding sequence by overlap PCR

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RESULT 14
ABG30773
ID ABG30
XX ABG30773
AC ABG30
XX CYTO
DT 05-NC
XX CYTO
DT 05-NC
XX Infl
KW infl
KW card
XW vir
XX Vir

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 밁
The invention relates to a cytokine polypeptide (CC1 or CC2), termed AAA85851.1 and AAA85894.1, and its associated polynucleotide. The sequences are useful for the treatment of a disease selected from immune disorders such as autoimmune disease, rheumatoid arthritis, osteoarthritis, psoriasis, systemic lupus erythematosus, and multiple sclerosis, inflammatory disorders such as allergy, rhinitis, conjunctivitis, glomerulomephritis, uveitis, Crohn's disease, ulcerative colitis, inflammatory bowel disease, pancreatitis, digestive system inflammation, sepsis, endotoxic shock, septic shock, cachexia, myalgia, ankylosing spondylitis, myasthenia gravis, post-viral fatigue syndrome, ankylosing spondylitis, myasthenia gravis, post-viral fatigue syndrome, ankylosing spondylitis, myasthenia gravis, post-viral fatigue syndrome, asthma, wound healing,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 04-OCT-2000; 2000GB-00024283
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            04-OCT-2001; 2001WO-GB004412
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Cytokine; immune disorder; autoimmune disease; IIIP; interleukin 8; II-8 inflammatory disorder; allergy; rhinitis; neoplastic disorder; tumour; haematological disease; myeloproliferative disorder; Hodgkin's disease; osteoporosis; obesity; diabetes; gout; cardiovascular disorder; AIDS; reperfusion injury; atherosclerosis; ischaemic heart disease; stroke; cardiac failure; liver disease; neurological disorder; male infertility; ocquired immunodeficiency syndrome; ageing; bacterial infection; cancer; viral infection; cytomegalovirus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1ILP complex polypeptide structure.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ABG30773 standard; protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2002-590419/63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cytokine polypeptides useful for treating immune disorders e. mmune disease, rheumatoid arthritis, osteoarthritis, inflammat ders, dermatological disease, neoplastic disorders and AIDS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       64
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          IMPHARMATICA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          VFVKRAE 68
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BLRCQCIKTYSKPFHPKFIKELRVIESGPHCANTEIIVKLSDGKKLCLNPKENWVQRVVE 63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Phelps CB,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Fig 8; 86pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gutteridge A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   English
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The claimed NCF is composed in whole or in part of the AA sequence in AAP90913. Anti-NCF MADS are useful for treating inflammatory conditions. (Note: Revised entry submitted to correct the patent number format of US Government-owned NTIS applications to prevent clashes with ongoing US granted patent numbers. For further information please visit the Derwent web site at www.derwent.com/dwpi/updates/ntis_us.html.) (Updated on 10-

Page

8; 11pp; English

treating inflammatory

conditions.

monoclonal antibodies

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RESULT 15
AAP81838
ID AAP811
XX AAP81.
XX AAP81.
XX IOT 17-MA
DT 17-MA
COS Synth
XX INF1a
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17-DEC-2001
07-NOV-1990
                                                                                                                                                                                                                        Synthetic neutrophil chemo:tactic factor - and useful for treating inflammatory conditions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   endometriosis, dermatological disease, Behoet's disease, neoplastic disorders such as melanoma, sarcoma, renal tumour, colon tumour, haematological disease, myeloproliferative disorder, Hodgkin's disease, osteoporosis, obesity, diabetes, gout, cardiovascular disorders, reperfusion injury, atherosclerosis, ischaemic heart disease, cardiac failure, stroke, liver disease, AIDS, AIDS related complex, meurological disorders, male infertility, ageing and bacterial infections including plasmodium infection or viral infection, particularly human herpesvirus 5 (cytomegalovirus) infection. This sequence represents an interleukin 8 (IL-8) dimer in complex with a fragment of the IL-8 receptor, used in the scope of the invention. The complex structure is termed the IILP
                                                                                                                                                                                                                                                                                                                                                                                                (USSH
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Synthetic.
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Pred. No. 2.2e
LO; Mismatches
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2.2e-25;
1es 6;
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Database
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Maximum Match 100%
Listing first 45 summaries
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                                                                                                                                                                                                                                                                                                                              Score
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1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep:*

2: /cgn2_6/ptodata/2/pubpaa/US07_NEW PUB.pep:*

3: /cgn2_6/ptodata/2/pubpaa/US06_NEW PUB.pep:*

4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep:*

5: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep:*

6: /cgn2_6/ptodata/2/pubpaa/US08_NEW PUB.pep:*

7: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*

9: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*

10: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*

10: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep:*

11: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep:*

12: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep:*

13: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep:*

14: /cgn2_6/ptodata/2/pubpaa/US108_PUBCOMB.pep:*

15: /cgn2_6/ptodata/2/pubpaa/US108_PUBCOMB.pep:*

16: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*

17: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*

16: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*

17: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*

18: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*

19: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
       Match
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Copyright (c) 1993 - 2004 Compugen Ltd.
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/cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*
/cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*
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                   14 US-10-087-273-1
14 US-10-087-273-2
9 US-09-229-304-9
10 US-09-811-162-5
13 US-10-037-218A-2
14 US-10-668-733-13
15 US-10-668-733-13
16 US-10-668-733-18
16 US-10-803-960-16
14 US-10-104-755-79
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Sequence 1, Appli
Sequence 2, Appli
Sequence 9, Appli
Sequence 5, Appli
Sequence 2, Appli
Sequence 13, Appli
Sequence 16, Appl
Sequence 16, Appl
Sequence 26, Appli
Sequence 79, Appli
Sequence 19, Appli
Sequence 4, Appli
Sequence 19, Appli
Sequence 19, Appli
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38.0	38.0		41.3	41.3	45.8	49.4	. 49.4	67.3	67.3	67.3	67.3	71.4	71.6	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
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US-09-764-877-2055	US-09-764-903-53	US-09-764-898-258	US-09-771-023-9	-10-146-18	-10-115-479	US-10-121-119-1		-10-629-248	US-10-629-248-48	US-09-755-665-50	US-09-755-665-48	US-10-104-755-81	US-10-104-755-83	US-10-733-878-511	-10-	US-10-188-832-62	US-10-440-464-183	1	-10-295	-10-170	-10-3	-235-	US-10-171-311-93	US-10-104-755-3	US-10-099-007A-4	US-10-121-119-3	US-09-981-353-175	US-08-927-939-23	US-09-229-304-8	US-10-243-795-1	US-10-332-038A-22
205	Sequence 53, Appl	258,	9	۳	24,	۲	Sequence 2, Appli	50,	e 48,	50,	48,	81,	83	511,	74,	62,	183	1209		251,	87	9		u	4.	e 3,	Sequence 175, App	23	,8	1, 7	Sequence 22, Appl

ALIGNMENTS

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APPLICANT: Gordon, John R.
APPLICANT: Li, Fang
TITLE OF INVENTION: HIGH-AFFINITY ANTAGONISTS OF ELR-CXC CHEMOKINES
FILE REFERENCE: 47957
CURRENT APPLICATION NUMBER: US/10/087,273
CURRENT FILING DATE: 2002-08-23
PRIOR APPLICATION NUMBER: US 60/273,181
PRIOR FILING DATE: 2001-03-01
NUMBER OF SEQ ID NOS: 8
SOFTWARE: Patentin version 3.1
SEQ ID NO 1
LENCTH: 72
TYPE: PRT
ORGANISM: Bos taurus
US-10-087-273-1
RESULT 2
US-10-087-273-2
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US-10-087-273-1
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                                                                                                                                                                                                                       Query Match 100.0%; Score 391; DB 14; Best Local Similarity 100.0%; Pred. No. 6.6e-38; Matches 72; Conservative 0; Mismatches 0;
                                                                                                   61 QVFVKRAEKQDP
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                                                                         QVFVKRAEKQDP
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US-09-811-162-5
Sequence 5, Application US/09811162
Publication No. US20030040109A1
GENERAL INFORMATION:
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US-10-087-273-2
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SEQ ID NO 9
LENGTH: 103
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Patent No. US20020090671A1
GENERAL INFORMATION:
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SOFTWARE: PatentIn version 3.1
SEQ ID NO 2
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Publication No. US20030077705A1
GENERAL INFORMATION:
APPLICANT: Martins-Green, Manuela
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CURRENT APPLICATION NUMBER: US/09/229,304
CURRENT FILING DATE: 1999-01-13
EARLIER APPLICATION NUMBER: US 09/048,058
EARLIER FILING DATE: 1998-03-26
EARLIER FILING DATE: 1998-03-26
EARLIER FILING DATE: 1996-09-26
NUMBER: PCT/CA96/00653
EARLIER FILING DATE: 1996-09-26
NUMBER OF SEQ ID NOS: 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: TAM, Cherk Shing
TITLE OF INVENTION: BONE STIMULATING FACTOR
FILE REFERENCE: 079997/0123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CURRENT APPLICATION NUMBER: US/10/087,273
CURRENT FILING DATE: 2002-08-23
PRIOR APPLICATION NUMBER: US 60/273,181
PRIOR FILING DATE: 2001-03-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Gordon, John R. APPLICANT: Li, Fang
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TITLE OF INVENTION: HIGH-AFFINITY ANTAGONISTS OF ELR-CXC CHEMOKINES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LENGTH: 74
TYPE: PRT
                                                                                                                                                                                                                                                                                                                   Local
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                                                                                                                                                  91
                                                                                                                                                                                  62 VFVKRAEKO 70
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                                                                                                                                                  IFLKRTEKQ 99
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                                                                                                                                                                                                                                                                                                              82.9%;
                                                                                                                                                                                                                                                                                            Score 324; DB 9; Length 103; Pred. No. 6.5e-30; 3; Mismatches 6; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 379; DB 14;
Pred. No. 1.7e-36;
1; Mismatches 1;
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CURRENT APPLICATION NUMBER: US/09/811,162
CURRENT FILING DATE: 2001-07-30
NUMBER OF SEQ ID NOS: 13
SOFTWARE: PatentIn version 3.0
SEQ ID NO 5
LENGTH: 72
TYPE: PRT
ORGANISM: Homosapiens
US-09-811-162-5
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US-10-037-218A-2
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SEQ ID NO 2
LENGTH: 72
TYPE: PRT
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                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 73.4%; Score 287; DB 10; Best Local Similarity 76.1%; Pred. No. 8.9e-26; Matches 51; Conservative 10; Mismatches 6;
                                                                                                                                                                              Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Showliter, Stephen
TITLE OF INVENTION: NOVEL NEUTROPHIL CHEMOTACTIC FACTOR, CLONED CDNA AND MONOCLONAL /
TITLE OF INVENTION: THERETO
FILE REFERENCE: 2026-4052US4
CURRENT APPLICATION NUMBER: US/10/037,218A
CURRENT FILING DATE: 2001-11-09
PRIOR APPLICATION NUMBER: US 08/818,631
PRIOR APPLICATION NUMBER: US 08/818,631
PRIOR PILING DATE: 1997-03-14
PRIOR PILING DATE: 1998-03-16
PRIOR FILING DATE: 1998-03-16
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APPLICANT: Appella, Ettore
APPLICANT: Showalter, Stephe
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APPLICANT: Yoshimura, Teizo
APPLICANT: Leonard, Edward
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APPLICANT: Li, QiJing
APPLICANT: Li, QiJing
TITLE OF INVENTION: Chemokines and Methods for Inducing the Differentiation of Fibrob
TITLE OF INVENTION: Myofibroblasts
FILE REFERENCE: 407E-000500US
                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQ ID NOS: 2
64
                                     62 VFVKRAE 68
                                                                                                                                                         51;
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                                                               ELRCOCIKTYSKPFHPKFIKELRVIESGPHCANTEIIVKLSDGRELCLDPKENWVQRVVE
KFLKRAE 70
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                                                                                                                                                       Conservative
                                                                                                                                                                            73.4%;
                                                                                                                                                           10;
                                                                                                                                                       Score 287; DB 13;
Pred. No. 8.9e-26;
.0; Mismatches 6;
                                                                                                                                                                                               Length 72;
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RESULT 6
US-10-668-733-13
; Sequence 13, Application US/10668733
; Publication No. US20040138422A1

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APPLICANT: Demotz et al.
ITTLE OF INVENTION: SYNTHETIC CHEMOKINES LABELED AT
FILE REFERENCE: 2994/38772A
CURRENT APPLICATION UNMBER: US/10/668,733
CURRENT FILING DATE: 2003-09-23
PRIOR APPLICATION NUMBER: US 60/412,866
PRIOR FILING DATE: 2002-99-23
NUMBER OF SEQ ID NOS: 21
SOPTWARE: Patentin version 3.2
SEQ ID NO 13
LENGTH: 72
PRIOR FILING SOPTWARE: PATENTIN NUMBER: US/412,866
RESULT 8
US-10-803-960-16
· Sequence 16, Application US/10803960
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US-10-668-733-18
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; NAME/KEY: misc feature
; LOCATION: (71)...(71)
; OTHER INFORMATION: The amino acid at position 71 is Dpr(Ser) linked to AlexaFluor647
US-10-668-733-13
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Best Local Similarity 76.1
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LENGTH: 72
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Demotz et al.
TITLE OF INVENTION: SYNTHETIC CHEMOKINES LABELED
FILE REFERENCE: 29964/38772A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CURRENT APPLICATION NUMBER: US/10/668,733
CURRENT FILING DATE: 2003-09-23
PRIOR APPLICATION NUMBER: US 60/412,866
PRIOR FILING DATE: 2002-09-23
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SOFTWARE: PatentIn version 3.2
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ORGANISM: Artificial sequence
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ORGANISM: Artificial sequence
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les 51; Conservative
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                                                                                                                                                                                                                                                                     73.4%; Score 287; DB 16;
76.1%; Pred. No. 8.9e-26;
7ative 10; Mismatches 6
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                                                                                                                                                                                                                                                                                                            DB 16;
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; OTHER INFORMATION: Description of Artificial Sequence:Synthetic US-10-207-330-26
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US-10-803-960-16
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CURRENT FILING DATE: 2004-03-19
PRIOR APPLICATION NUMBER: 09/567,225
PRIOR FILLMG DATE: 2000-05-09
PRIOR APPLICATION NUMBER: US 09/225,501
PRIOR FILLMG DATE: 1999-01-06
PRIOR APPLICATION NUMBER: US 60/006,051
PRIOR FILING DATE: 1995-10-24
PRIOR APPLICATION NUMBER: US 08/740,033
PRIOR APPLICATION NUMBER: US 08/740,033
PRIOR FILING DATE: 1996-10-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SOFTWARE: PatentIn version 3.0
SEQ ID NO 16
LENGTH: 72
TYPE: PRT
Query Match 73.4
Best Local Similarity 76.3
Matches 51; Conservative
                                                                                                                                                                                          NUMBER OF SEQ ID NOS: 30
SOFTWARB: PATENTIN VET. 2.1
SEQ ID NO 26
LENGTH: 73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 26, Application US/10207330 Publication No. US20030018169A1
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                         FILE REFERENCE: grfn-028/02W0
CURRENT APPLICATION NUMBER: US/10/207,330
CURRENT FILING DATE: 2002-07-30
PRIOR APPLICATION NUMBER: US/09/384,302
PRIOR FILING DATE: 1999-08-26
PRIOR PILING DATE: 1998-08-31
PRIOR FILING DATE: 1998-08-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Gryphon Sciences
TITLE OF INVENTION: Lipid Matrix-Assisted Chemical Ligation and Synthesis
TITLE OF INVENTION: of Membrane Polypeptides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Kochendoerfer, Gerd APPLICANT: Hunter, Christie L
                                                                                                                                                                                                                                                                                PRIOR APPLICATION NUMBER: 09/263,971 PRIOR FILING DATE: 1999-03-05
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TITLE OF INVENTION: Novel Chemokine for Mobilizing Stem Cells
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
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                                                                                                                            ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                       TYPE: PRT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Kent, Stephen B.H.
Botti, Paolo
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  73.4%; Score 287; DB 14; 76.1%; Pred. No. 9.1e-26; tive 10; Mismatches 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         73.4%; Score 287; DB 16; 76.1%; Pred. No. 8.9e-26;
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                                        Length 73;
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Indels

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Gaps

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TOPOLOGY: Innear

MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 79:
US-10-104-755-79
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US-10-104-755-79
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INFORMATION FOR SEQ ID NO: 79:
SEQUENCE CHARACTERISTICS:
LENGTH: 76 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                     Matches
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Publication No. US20030031645A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                         CURRENT APPLICATION NUMBER: US/10/104,755

PILING DATE: 21-Mar-2002

CLASSIFICATION DATA:

APPLICATION VIMBER: US/10/104,755

PRIOR APPLICATION CURROWN>

PRIOR APPLICATION NUMBER: US/09/213,383

FILING DATE: 09-Dec-1998

APPLICATION NUMBER: 08/468,819

FILING DATE: CURROWN>

APPLICATION NUMBER: 08/468,819

FILING DATE: CURROWN>

ATTORNEY/AGENT INFORMATION:

NAME: Highlander, Steven L.

REGISTRATION NUMBER: 37,642

REFERENCE/DOCKET NUMBER: UMIC:003/HYL

TELEPHONE: 512/418-3000

TELEPHONE: 512/418-3000

TELEPAX: 512/474-7477

TELEPAX: 512/474-7477
                                                                                                                                                                     Local
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MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQUENCES: 93
CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold, White & Durkee
STREET: P.O. Box 4433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Strieter, Robert M.
Polverini, Peter J.
Kunkel, Steven L.
TITLE OF INVENTION: CXC Chemokines
68 KFLKRAE 74
                                   62 VFVKRAE 68
                                                                                                                                                   l Similarity
51; Conserv
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                                                                 ELRCQCIKTYSKPFHPKFIKELRVIESGPHCANTEIIVKLSDGRELCLDPKENWVQRVVE
                                                                                 ELRCQCIRTHSTPFHPKFIKELRVIESPPHCENSEIIVKLTNGNEVCLNDKEKWVQKVVQ
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                                                                                                                                                   Conservative
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                                                                                                                                         73.4%; Score 287; DB 14; Length 76.1%; Pred. No. 9.5e-26; tive 10; Mismatches 6; Indels
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RESULT 13
US-10-375-209A-19
; Sequence 19, Application US/10375209A |
; Publication No. US20030215421A1
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CURRENT FILING DATE: 2001-02-22
NUMBER OF SEQ ID NOS: 93
SOPTWARE: Patentin Ver. 2.0
SEQ ID NO 19
LENGTH: 77
TYPE: PRT
ORGANISM: homo sapien
FEATURE:
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; ORGANISM: Homosapiens
US-09-811-162-4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE OF INVENTION: Chemokines and Methods for Inducing the Differentiation of Fibrob TITLE OF INVENTION: Myofibroblasts
FILE REFERENCE: 407E-000500US
CURRENT APPLICATION NUMBER: US/09/811,162
CURRENT FILING DATE: 2001-07-30
NUMBER OF SEQ ID NOS: 13
SOFTWARE: PatentIn version 3.0
SEQ ID NO 4
LENGTH: 77
TYPE: NOT
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US-09-792-793A-19
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APPLICANT: Wartins-Green, Mann
APPLICANT: Feugate, Jo Ellen
APPLICANT: Li, QiJing
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APPLICANT: McDonald, John R.
APPLICANT: Coggins, Philip
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING SECONDARY TISSUE DAMAGE
TITLE OF INVENTION: OTHER INFLAMMATORY CONDITIONS AND DISORDERS
FILE REFERENCE: 25020-601D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 4, Application US/09811162
Publication No. US20030040109A1
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Patent No. US20020168370A1
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Similarity 76.1%; Pred. No. 9.6e-26;
51; Conservative 10; Mismatches 6;
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76.1%;
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Pred. No. 9.6e-26;
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RESULT 15
US-10-243-795-1
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; ORGANISM: Homo Sapiens
US-10-332-038A-22
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: McDonald, John R.
APPLICANT: Coggins, Philip
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING SECONDARY TISSUE DAMAGE AND
TITLE OF INVENTION: OTHER INFLAMMATORY CONDITIONS AND DISORDERS
FILE REPERENCE: 25020-601E
CURRENT APPLICATION NUMBER: US/10/375,209A
CURRENT FILING DATE: 2003-02-24
NUMBER OF SEQ ID NOS: 93
SOFTWARE: PALENTIN Ver. 2.0
SEQ ID NO 19
LENGTH: 77
                Sequence 1, Application US/10243795 Publication No. US20040197303A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQ ID NOS: 28
SOFTWARE: PatentIn version 3.2
SEQ ID NO 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 22, Application US/10332038A Publication No. US20040077835A1
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Best Local Similarity
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Gaertner, Hubert
APPLICANT: Hartley, Oliver
TITLE OP INVENTION: Chemokine Receptor Modulators, Production and Use
FILE REFERENCE: 03504.271
CURRENT APPLICATION NUMBER: US/10/332,038A
CURRENT FILING DATE: 2003-05-06
PRIOR APPLICATION NUMBER: US 60/217,683
PRIOR PILING DATE: 2000-07-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Gryphon Therapeutics, Inc
APPLICANT: Offord, Robin
APPLICANT: CHEMOKINE THERAPEUTICS CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
ORGANISM: homo sapien
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                                                                                                                                                            KFLKRAE
                                                                                                                                                                                                                                          ELRCQCIKTYSKPFHPKFIKELRVIESGPHCANTEIIVKLSDGRELCLDPKENWVQRVVE
                                                                                                                                                                                                                                                                                                                 73.4%; Score 287; DB 15; ilarity 76.1%; Pred. No. 9.6e-26; Conservative 10; Mismatches 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    73.4%; Score 287; DB 14; Length 77; ilarity 76.1%; Pred. No. 9.6e-26; Conservative 10; Mismatches 6; Indels
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Job time
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                                                                                                                                                                                                                                                                     US-10-243-795-1
                                                                                                                                                                                                                                                                              TITLE OF INVENTION: DESIGN OF CHEMOKINE ANALOGS FOR THE TREATMENT OF HUMAN DISEASES FILE REPERENCE: 59296.00003

CURRENT APPLICATION NUMBER: US/10/243,795

CURRENT FILING DATE: 2002-09-13

NUMBER OF SEQ ID NOS: 1640

SOFTWARE: PATENTIN version 3.2

SEQ ID NO 1

LENGTH: 77

TYPE: PRT
ORGANIAM: Artificial Sequence
PEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic peptide
                                                                                                                                                                                                                  Query Match
Best Local Similarity
                                                                                                                                                                                                      Matches
: 148 secs
                                                                  69 KFLKRAE 75
                                                                                                  62 VFVKRAE 68
                                                                                                                                51; Conservative
                                                                                                                                                                                                                  73.4%; Score 287; DB 17; 76.1%; Pred. No. 9.6e-26;
               2004, 20:05:06
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OM protein - protein search, using sw model

Run

9 December 13, 2004, 19:43:47; Search time 38 Seconds (without alignments) 182.305 Million cell updates/sec

Perfect score: Title: US-10-087-273-1 391 1 TELRCQCIRTHSTP

TELRCQCIRTHSTPFHPKFI.....EKWVQKVVQVFVKRAEKQDP

72

Scoring table: BLOSUM62 Gapop 10.0 ,

Gapext 0.5

Searched:

Total number of hits satisfying chosen parameters: 283416

283416 seqs, 96216763 residues

Minimum DB Maximum DB eeq length: 0 length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 g

summaries

Database 4321 PIR_79:* 1: pir1:* pir2:*
pir3:*

pir4':*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution

SUMMARIES

22222 9876	14 15 16 11 19 19 20 21 22 24		Result
127.5 125 126 123.5 123.5		361 335 330 318 3287 287 280 193 165.5 161.5 161.5 148.5	Score
32.6 32.0 31.7 31.6		92 85 85 77 73 73 73 74 74 75 75 75 75 75 75 75 75 75 75 75 75 75	Query Match
119 126 125 105	107 114 107 107 107 128 128 132 100 100	101 103 101 95 95 101 103 117 96	Length 1
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platelet basic pro platelet factor 4, interferon gamma i platelet factor 4 platelet factor 4	ഥ i ഥഥ a a a vz a u p•tu	interleukin-8 prec interleukin-8 prec interleukin-8 - ra interleukin-8 - do interleukin-8 prec Neutrophil attract RSV-induced protei transformation-ind alveolar macrophag gro-alpha precurso growth-regulated pneutrophil chemo-a granulocyte chemot	Description

interleukin-8 precursor - pig
interleukin-8 precursor - pig
NAIternate names: alveolar macrophage chemotactic factor-I (AMCF-I)
C;Species: Sus scrofa domestica (domestic pig)
C;Date: 02-Jun-1995 #sequence_revision 02-Jun-1995 #text_change 09-Jul-2004
C;Accession: A53096; A44253
C;Accession: A53096; A44253
R;Jin, G.; Pearson, A.E.; Scamurra, R.W.; Zhou, Y.; Baarsch, M.J.; Weiss, D.J.; Murtaug'
R,Jin, G.; Pearson, A.E.; Scamurra, R.W.; Zhou, Y.; Baarsch, M.J.; Weiss, D.J.; Murtaug'
N. Biol. Chem. 269, 77-85, 1994

RESULT 2 A53096

45	44	43	42	41	40	39	38	37	36	35	34	ω ω	32	31	30
80.5	81	81	86	87	87	87	91.5	101.5	103.5	108.5	110	112.5	114.5	115.5	118
20.6	20.7	20.7	22.0	22.3	22.3	22.3	23.4	26.0	26.5	27.7	28.1	28.8	29.3	29.5	30.2
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cytokine - rabbit	monocyte chemoattr	monocyte chemoattr	cytokine SDF-1-bet	cytokine - mouse	pre-B-cell growth-	interleukin-8 homo		neutrophil activat	IP-10 precursor -	Mob-1 - rat	macrophage inflamm	interferon gamma-i	platelet factor 4	platelet factor 4	gene KC protein -

ALIGNMENTS

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RESULT 1 S42496 밁 Ś В Ś A;Cross-references: UNIPROT: P36925; EMBL: X78306; NID: g463253; PIDN: CAA55115.1; PID: g463: R;Seow, H.F.; Yoshimura, T.; Wood, P.R.; Colditz, I.G. Immunol. Cell Biol. 72, 398-405, 1994
A;Title: Cloning, sequencing, expression and inflammatory activity in skin of ovine int. A;Reference number: 146997; MUID: 95137691; PMID: 7835984
A;Accession: 146997 interleukin-8 precursor [similarity] - sheep C;Species: Ovis orientalis aries, Ovis ammon aries C;Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 C;Accession: S42496; I46997 F;21-101/Product: submitted to the EMBL Data Library, March 1994 A;Description: Nucleotide sequence of ovine interleukin 8 cDNA using polymerase chain R;Legastelois, A;Gene: IL-8 A;Cross-references: GB:S74436; NID:g786590; PIDN:AAB33241.1; PID:g786591 A;Residues: A; Accession: A;Reference number: S42496 \;Status: preliminary; translated from GB/EMBL/DDBJ
\;Molecule type: mRNA
\;Residues: 1-101 <SEO> Superfamily: beta-thromboglobulin ;Superfamily: beta-thromboglobulin ;Keywords: chemotaxis; cytokine; inflammation ;1-20/Domain: signal sequence #status predicted <SIG>;21-101/Product: interleukin-8 #status predicted <MAT> ;Genetics: Residues: 1-101 <LEG> ;Molecule type: mRNA Matches Query Match Best Local (90 61 OVEVKRAEKODP 72 30 TELRCQCIKTHSTPFHPKFIKELRVIESGPHCENSEIIVKLTNGKEVCLDPKEKWVQKVV 89 1 TELRCQCIRTHSTPFHPKFIKELRVIESPPHCENSBIIVKLINGNEVCLNPKEKWVQKVV 60 66; Similarity S42496 QAFLKRAEKQDP 101 Conservative Greenland, T.; Arnaud, P.; Mornex, J.F.; Cordier, wBL Data Library, March 1994 92.3%; Score 361; DB 2; Length 101; 91.7%; Pred. No. 1.5e-33; ω --Mismatches (domestic sheep)
#text_change 09-Jul-2004 ω --#text_change Indels 0 Gaps <u>ဂ</u> 0

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A;Residues: 23-33,'X',35,'X',37-46,'X',48-49,'I',51-53
C;Superfamily: beta-thromboglobulin
C;Keywords: cytokine
                                                                                                                                                                                                                                                                                           A;Reference number: S13052; MUID:91058518; A;Accession: S13052
                                                                                                                                                                                                                                                                                                                                          A;Cross-references: UNIPROT:P19874; GB:M57439; NID:g165552; PIDN:AAA31422.1; PID:g165553 R;Beaubien, B.C.; Collins, P.D.; Jose, P.J.; Totty, N.F.; Hsuan, J.; Waterfield, M.D.; W Biochem. J. 271, 797-801, 1990 A;Title: A novel neutrophil chemoattractant generated during an inflammatory reaction in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        N;Alternate names: neutrophil attractant/activation protein-1 c/Species: Oryctolagus cuniculus (domestic rabbit) C;Date: 14-Feb-1997 #sequence_revision 14-Feb-1997 #text_change: Accession: 146871; 513052 R;Yoshimura, T.; Yuhki, N.
J. Immunol. 146, 3483-3488, 1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A, Experimental source: alveolar macrophage A, Note: sequence extracted from NCBI backbone (NCBIN:117. A, Note: the sequence in GenBank entry PIGAMCFI, release C, Superfamily: beta-thromboglobulin C, Keywords: chemotaxis, cytokine, inflammation F,1-22/Domain: signal sequence #status predicted <NAT>F,23-103/Product: interleukin-8 #status predicted <NAT>
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A;Molecule type: mRNA
A;Residues: 1-101 <YOS>
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A;Residues: 1-22,'D',24-103 <GOO>
A;Cross-references: GB:M99367; NID:g1235611
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A;Status: preliminary
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A;Reference number: A53096;
A;Accession: A53096
A;Status: preliminary
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                                                              TELRCQCIRTHSTPFHPKFIKELRVIESPPHCENSEIIVKLTNGNEVCLNPKEKWVQKVV 60
                                   TELRCQCIKTHSTPFHPKFIKELRVIESGPHCANSEIIVKLVDGRELCLDPKEKWVQKVV
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3096; MUID:94103307; PMID:8276881
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Pred. No. 4.5e-30;
8; Mismatches 4
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Pred. No. 1.3e-30;
3; Mismatches 5;
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I, release 117.0, has been co
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A; Molecule type: mRNA
A; Residues: 1-99 < MAIN-
A; Residues: 1-99 < MAIN-
A; Residues: 1-99 < MAIN-
A; Cross-references: EMBL: V00787; NID: g34518; PIDN: CAA68742.1; PID: g34519
A; Note: the sequence shows similarity to several platelet-derived factors, a v-src-
R; Kowalski, J.; Denhardt, D.T.
Mol. Cell. Biol. 9, 1946-1957, 1989
A; Title: Regulation of the mRNA for monocyte-derived neutrophil-activating peptide
A; Reference number: A32791; MUID: 89313739; PMID: 2664463
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    R;Mukaida, N.; Shiroo, M.; Matsushima, K.
J. Immunol. 143, 1366-1371, 1989
A;Title: Genomic structure of the human monocyte-derived neutrophil chemotactic factor A;Reference number A37034; MUID:89309826; PMID:2663993
A;Accession: A37034
A;Reference number: S37634
A;Accession: S37634
                                                                A;Cross-references: GB:M26383; NID:g188627; PIDN:AAA36323.1; PID:g188628 R;King, C.H.; Gordon, G.S.; Konieczkowski, M.; Sedor, J.R. submitted to the EMBL Data Library, February 1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Cross-references: UNIPROT:P10145; GB:M28130; NID:g186367; PIDN:AAA59158.1; PID:g186367 A;Note: the authors failed to translate the last thirty-six nucleotides of the second estratements. Who existing the property of the second estratements. When the property of the second estratements of the second estratements. When the property of the second estratements. The property of the second estratements. The property of the propert
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A; Residues: 1-99 < KOW>
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A; Residues: 1-99 < MUK>
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C;Date: 08-Dec-1992 #sequence revision 08-Dec-1992 #text_change 09-Jul-2004
C;Accession: A37034; JL0041; A32791; S37634; PL0107; A28598; A27488; A39960;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 N;Alternate names: beta-thromboglobulin-like protein; fibroblast-derived neutrophil-active-derived neutrophil chemotactic factor; monocyte-derived neutrophil-activating factor
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A;Title: Cloning of a canine gene homologous to the human interleukin-8-encoding a.Peference number: JN0841; MUID:94010328; PMID:7916715
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A; Residues: 1-95 <ISH>
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C;Date: 19-May-1994 #sequence_revision 19-May-1994 #text_change 12-Apr-1995
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A;Molecule type: protein
A;Residues: 23-32 <SCH>
A;Rote: a minor component of this material (15%) includes an additional two amino acids A;Note: a minor component of this material (15%) includes an additional two amino acids R;Van Damme, J:; Decock, B:; Conings, R:; Lenaerts, J.P.; Opdenakker, G:; Billiau, A. Bur. J. Immunol. 19, 1189-1194, 1989
A;Title: The chemotactic activity for granulocytes produced by virally infected fibrobl. A;Reference number: A60591; MUID:89338542; PMID:2668011
A;Accession: A60591
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A;Residues: 28-59 <WAL>
R;Yoshimura, T.; Matsushima, K.; Tanaka, S.; Robinson, E.A.;
Proc. Natl. Acad. Sci. U.S.A. 84, 9233-9237, 1987
A;Title: Purification of a human monocyte-derived neutrophil
A;Reference number: A39960; MUID:88097462; PMID:3480540
A;Accession: A39960
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A;Residues: 23-33,'x',35,'x',37-47 <FEB>
R;Residues: 23-33,'x',35,'x',37-47 <FEB>
R;van Damme, J; van Becumen, J; Conings, R.; Decock, B.; Billiau, A. Eur. J. Biochem. 181, 337-344, 1989
A;Title: Purification of granulocyte chemotactic peptide/interleukin-8 A;Reference number: S04216; MUID:89231715; PMID:2523801
A;Accession: S04216
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A;Residues: 28-69 <70S>
R;Residues: 28-69 <70S>
R;Schroeder, J.M.; Sticherling, M.; Henneicke, H.H.; Preissner, W.C.; Christophers, E.
J. Immunol: 144, 2223-2232, 1990
A;Title: IL-lalpha or tumor necrosis factor-alpha stimulate release of three NAP-1/IL-8-A;Reference number: A60401; MUID:90187866; PMID:2179408
A;Accession: A60401
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A;Residues: 23-32,'XR',35,'X',37-52,'L',54 <SUZ>
A;Residues: 23-32,'XR',35,'X',37-52,'L',54 <SUZ>
A;Reperimental source: lung giant cell carcinoma LU65C
R;Gregory, H.; Young, J.; Schroeder, J.M.; Mrowietz, U.; Christophers, E.
Biochem. Biophys. Res. Commun. 151, 883-890, 1988
A;Title: Structure determination of a human lymphocyte derived neutrophil activating
A;Reference number: A28598; MUID:88162914; PMID:3279957
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A;Title: Purification and partial primary sequence of a A;Reference number: PLO107; MUID:89279141; PMID:2659722
                                                                                                                                                                                                                                                                                                                                                                                                            A; Molecule type: protein A; Residues: 21-67 < VA2>
R; Yoshimura, T.; Robinson, R; Yoshimura, R; Yoshimura, T.; Robinson, R; Yoshimura, R; Yos
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A; Residues: 23-33, 'X', 35, 'X', 37-42 <VAN>
R; Nakagawa, H.; Hatakeyama, S.; Ikesue, I
FEBS Lett 282, 412-414, 1991
                                                                                    Note: the forms starting from positions
                                                                                                                                Molecule type: protein Residues: 21-33,'X',35,'X',37-47 <YO2>
                                                                                                                                                                                                                                                                           ol. Immunol. 26, 87-93, 1989;Title: Three forms of monocyte-derived neutrophil chemotactic;Reference number: A60567; MUID:89181632; PMID:2648135
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Suzuki, K.; Miyasaka, H.; Ota, H.; Yamakawa, Y.; Tagawa, M.; Kuramoto,
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Van Beeumen, J.;
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A;Accession: A;Andecule type: protein
A;Molecule type: protein
A;Car, B.D.; Baggiolini, M.; Walz, A.
R;Car, B.D.; Baggiolini, M.; Walz, A.
Biochem. J. 275, 581-584, 1991
Biochem. J. 275, 581-584, 1991
A;Title: Formation of neutrophil-activating peptide 2 from platelet-derived
A;Title: Formation of neutrophil-activating peptide 2 from platelet-derived
A;Title: S15417; MUID:91248085; PMID:2039437
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A;Residues: 23-46 <GOL>
R;Hotta, K.; Hayashi, K.; Ishikawa, J.; Tagawa, M.; Hashimoto,
Immunol. Lett. 24, 165-170, 1990
A;Title: Coding region structure of interleukin-8 gene of human
A;Reference number: I54560; MUID:30346419; PMID:2200751
                                                                                                            F;1-20/Domain: signal sequence #status predicted <SIG>
F;21-99/Product: interleukin-8, minor form #status experimental <MATA>
F;21-99/Product: interleukin-8, major fibroblast-derived form #status experimental <MATI
F;28-99/Product: interleukin-8, major lymphocyte/monocyte-derived form #status experimen
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A; Residues: 1-99 < ALCO
C; Comment: This secretory protein is
C; Comment: This protein is variably p
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A; Introns: 22/1; 67/2; 95/2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A;Cross-references: EMBL:Z11686; NID:g33958; R;Alouani, S.; Gaertner, H.F.; Mermod, J.J.; Eur. J. Blochem. 227, 328-334, 1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Title: Induction of mRNA for a serine protease and a A;Reference number: I55992; MUID:87224164; PMID:2953813 A;Accession: I55992
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A;Molecule type: DNA
A;Residues: 1-99 <RES>
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Biochem. J. 259, 585-588,
A;Title: Inflammatory cyto
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A; Residues: 1-97 < RE3 >
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A; Residues: 1-99 < RE2>
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A;Accession: $03975
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A; Residues: 28-99
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250-256, 1987
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76.1%;
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                              Score 287; DB 2
Pred. No. 3e-25;
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   Mismatches
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Power, C.A.; Bacon, K.B.; Wells,
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C;Species: Gallus gallus (chicken)
C;Date: 13-Sep-1996 #sequence_revision 13-Sep-1996 #text_change 09-Jul-2004
C;Accession: I50417
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C;Superfamily: beta-thromboglobulin
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A;Accession: I48148
A;Status: preliminary; translated from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Neutrophil attractant protein-1 - guinea pig
C;Species: Cavia porcellus (guinea pig)
C;Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 09-Jul-2004
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R;Yoshimura, T.; Johnson, D.G.
J. Immunol. 151, 6225-6236, 1993
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A; Residues: 1-101 < RES>
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                                                                                                                                                                                                                                                                                                                                                   ;Molecule type: mRNA
;Residues: 1-103 <BE
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Natl. Acad. Sci. U.S.A. 84, 6715-6719, 1987
Le: Constitutive expression of a gene encoding
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                                                                                       ALMAKAQ 96
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Pred. No. 1.9e-24;
12; Mismatches 10
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Pred. No. 1.2e-14;
3; Mismatches 20
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N;Alternate names: gro protein; growth regulated protein; melanoma growth-stimulating C;Species: Mus musculus (house mouse)
C;Date: 20-Oct-1989 #Bequence_revision 20-Oct-1989 #text_change 09-Jul-2004
C;Accession: A32954; JH0081
R;Oquendo, P.; Alberta, J.; Wen, D.; Graycar, J.L.; Derynck, R.; Stiles, C.D.
J. Biol. Chem. 264, 4133-4137, 1989
A;Title: The platelet-derived growth factor-inducible KC gene encodes a secretory prot A;Reference number: A32954; MUID:89139485; PMID:2917992
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A32954
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C;Date: 30-Apr-1993 #sequence_revision 18-Nov-1994 #text_change 09-Jul-2004
C;Accession: B44253
R;Goodman, R.B.; Foster, D.C.; Mathewes, S.L.; Osborn, S.G.; Kuijper, J.L.; Forstrom, J Blochemistry 31, 10483-10490, 1992
B;Ichemistry 31, 10483-10490, 1992
A;Title: Molecular cloning of porcine alveolar macrophage-derived neutrophil chemotactic A;Reference number: A44253; MUID:93041741; PMID:1420165
A;Reference number: A44253; MUID:93041741; PMID:1420165
A;Accession: B44253
A;Status: preliminary
A;Molecule type: mRNA; protein
A;Residues: 1-11 <GOO>
A;Residues: 1-17 <GOO>
A;Residues: 1-17 <GOO>
A;Residues: 1-17 <GOO>
A;Cross-references: UNIPROT:P22952; GB:M99368; NID:g164325; PIDN:AAA30991.1; PID:g164326
A;Experimental Squire: A14201ar macrophage
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Cell 49, 321-328, 1987
A;Title: Transformation by Rous sarcoma virus induces a
A;Reference number: A26736; MUID:87187628; PMID:3032449
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          transformation-induced protein precursor (clone 9E3) - chicken C;Species: Gallus gallus (chicken) C;Date: 19-Nov-1988 #sequence_revision 19-Nov-1988 #text_change 09-Jul-2004 C;Accession: A26736
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           F;18-103/Product: transformation-induced protein
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F;1-17/Domain: signal sequence #status
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C;Superfamily: beta-thromboglobulin
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A; Residues: 1-103 < SUG>
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Matches 32
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                                           QVFVKRAEKQD 71
                                                                                   ELRCMCLTT--TPGIHPKMISDLQVIPAGPQCSKAEVIATLKNGKEVCLDPKAPLIKKIV 106
                                                                                                                          ELRCQCIRTHSTP-FHPKFIKELRVIESPPHCENSEIIVKLTNGNEVCLNPKEKWVQKVV 60
QKMLDSGKKKN
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                                                                                                                                                                             Conservative
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117
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                                                                                                                                                                        Score 165.5; DB 2
Pred. No. 1.7e-11;
4; Mismatches 22
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Pred. No. 1.2e-14;
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C;Accession: Diotal C;Accession: Diotal C;Accession: Diotal C;Accession: Diotal C;Accession: R;Anisowicz, A.; Bardwell, L.; Sager, R.
Proc. Natl. Acad. Sci. U.S.A. 84, 7188-7192, 1987
Proc. Natl. Acad. Sci. U.S.A. 84, 7188-7192, 1987
A;Title: Constitutive overexpression of a growth-regulated A;Title: Constitutive overexpression of a growth-regulated A;Title: Constitution over the constitution of the con
           neutrophil chemo-attractant Gro protein precursor - rat
N;Alternate names: CINC; cytokine-induced neutrophil chemoattractant; interleukin-8-like
C;Species: Rattus norvegicus (Norway rat)
C;Date: 30-Sep-1993 #sequence revision 30-Sep-1993 #text_change 09-Jul-2004
C;Accession: JN0572; JQ1519; A34481; A48988; B48988; S51214
R;Konishi, K.; Takata, Y.; Yamamoto, M.; Yomogida, K.; Watanabe, K.; Tsurufuji, S.; Fuji
Gene 126, 285-286, 1993
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Exp. Cell Res. 180, 266-275, 1989

A;Title: Cloning and sequence of a secretory protein induced by growth factors in mouse A;Reference number: JH0081; MUID:89078502; PMID:2909392
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C; Superfamily ---
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A;Residues: 1-96 <RYS>
C;Comment: This protein is basic and lacks threonine, phenylalanine,
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A;Molecule type: mRNA
A;Residues: 1-96 <OQU>
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A; Residues: 1-101 < ANI >
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Matches 32; Conserv
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;1-24/Domain: signal sequence #status predicted <SIG:
;25-96/Product: gro-alpha #status predicted <MAT>
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Pred. No. 3.8e-11;
1; Mismatches 24
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Pred. No. 4.1e-11
9; Mismatches 2
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RESULT 13
B54188
granulocyte of
C;Species: Bo
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A;Cross-references: UNIPROT:P14095; DDBJ:D11445; NID:g391854; PIDN:BAA02009.1; PID:g220 R;Huang, S.; Paulauskis, J.D.; Kobzik, L. Biochem. Biophys. Res. Commun. 184, 922-929, 1992 A;Title: Rat KC cDNA cloning and mRNA expression in lung macrophages and fibroblasts. A;Reference number: JQ1519; MUID:92246987; PMID:1374243 A;Accession: JQ1519;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A;Experimental source: kidney, NRK-49F fibroblasts
A;Note: sequence extracted from NCBI backbone (NCBIP:129131)
R;HANZAWA, H.; HATUYAMA, H.; WATENABA, K.; TSURUKUJi, S.
FEBS Lett. 354, 207-212, 1994
A;Title: The three dimensional structure of rat cytokine CINC/Gro
A;Reference number: S51214; MUID:95046335; PMID:7957925
A;Contents: annotation; conformation by (1)H-NMR, residues 25-96
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A;Cross-references: GB:M86536
A;Experimental source: alveolar macrophage
A;Note: the authors translated the codon AGT for residue
R;Watanabe, K.; Konishi, K.; Fujioka, M.; Kinoshita, S.;
J. Biol. Chem. 264, 19559-19563, 1989
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                                                                                                    뮍
                                                                                                                                                                                                                                                                                                            C;Superfamily: beta-thromboglobulin
C;Keywords: cytokine; disulfide bond
F;1-24/Domain: signal sequence #status predicted <SIG>
F;25-96/Product: neutrophil chemo-attractant Gro protein #status experimental
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A;Molecule type: protein
A;Residues: 25-96 <HAN>
C;Comment: This protein has chemotactic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A;Status: pretaman,
A;Molecule type: protein
A;Residues: 25-57 <NAK>
A;Experimental source: kidney, N
A;Experimental source: kidney, N
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A;Title: Production of an interleukin-8-like chemokine by cytokine-stimulated A;Reference number: A48988; MUID:93228656; PMID:8471066
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A; Residues: 1-96 < KON>
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                                                   62 VFVKRAEK 69
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m NCBI backbone (NCBIP:129132)
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Pred. No. 2.3
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Biochem. J. 259, 585
A;Title: Inflammators
A;Reference number: 8
A;Accession: 803976
A;Molecule type: prot
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C;Accession: B54188
R;Proost, P.; Wuyts, A
Biochemistry 32, 10170
                                                                                                                                                                                                                                                                                                                                               A;Title: IL-1alpha or tumor necrosis factor-alpha stimulate release of three NAP-1/IL-8.
A;Reference number: A60401; MUID:90187866; PMID:2179408
                                                                                                                                                                                                                                                                                                                                                                                     A;Cross-references: EMBL:X12510; NID:g34621; PIDN:CAA31027.1; PID:g34622 R;Schroeder, J.M.; Sticherling, M.; Henneicke, H.H.; Preissner, W.C.; Ch. J. Immunol. 144, 2223-2232, 1990
A;Title: II-lalpha or tumor necrosis factor-alpha stimulate release of the stimulate releas
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A; Residues: 1-107 < RIC>
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Nucleic Acids Res. 18, 6453, 1990
A;Title: Nucleotide sequence of the human melanoma growth stimulatory activity A;Reference number: 813669; MUID:91057157; PMID:2129556
A;Accession: S13669
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Proc. Natl. Acad. Sci. U.S.A. 84, 7188-7192, 1987
A;Title: Constitutive overexpression of a growth-regulated gene in transformed
A;Reference number: A94184; MUID:88041072; PMID:2890161
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A;Cross-references: UNIPROT:P09341; EMBL:X54489; NID:g34625; PIDN:CAA38361.1; PID:g34626
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N;Alternate names: fibroblast-derived neutrophil-activating protein gamma; GRO-alpha;
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A;Note: sequence extracted from NCBI backbone
C;Superfamily: beta-thromboglobulin
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                                                                                                                                      Golds, E.E.; Mason, P.; Nyirkos, P. Lochem. J. 259, 585-588, 1989
                                                                                                                                                                                                            Experimental source: dermal fibroblasts
                                                                                                                                                                                                                                   Molecule type: protein
Residues: 35-42,'X',44,'X',46-48 <SCH>
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[Title: Molecular characterization]
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;Date: 30-Jun-1989 #sequence revision 30-Jun-1989 #text_change 09-Jul-2004;Date: S13669; A28414; S00983; B60401; S03976; A47626; B46519
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                                                     Inflammatory cytokines induce synthesis and secretion nce number: 803975; MUID:89246368; PMID:2655583
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F;1-34/Domain: signal sequence #status predicted <8IG>
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A; Molecule type: protein
A; Residues: 35-63,'X',65 <8C2>
A; Residues: 35-63,'X',65 <8C2>
A; Experimental source: LPS-stimulated monocytes
A; Experimental source: CPS-stimulated monocytes
A; Experimental source: CPS-stimulated monocytes
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                                                                                                                                                                                                                                                                                                                                                                  A;Gene: GDB:GRO1
                                                                                                                                                                                                                                                                                                                                                                                                    A; Experimental source: MG-63 osteosarcoma cells
                                                                                                                                                                                                                                                                                                                                                                                                                              A; Molecule type: protein A; Residues: 35-62 < PRO>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       R;Proost, P.; De Wolf-Peeters, C.; Conings, R.; Opdenakker, J. Immunol. 150, 1000-1010, 1993
A;Title: Identification of a novel granulocyte chemotactic A;Reference number: A46519; MUID:93139489; PMID:8423327
A;Accession: B46519
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ntity with melanoma growth stimulatory activity.
A;Reference number: A47626; MUID:90217938; PMID:2182761
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A; Title: Lipopolysaccharide-stimulated human monocytes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A;Residues: 35-41,'X',43-49,'X',51-52,'XX',55-57
R;Schroeder, J.M.; Persoon, N.L.M.; Christophers,
J.Exp. Med. 171, 1091-1100, 1990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A; Accession: A47626
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JH0281 RESULT 15

macrophage inflammatory protein 2 alpha precursor - human

N;Alternate names: gro-beta; growth regulated protein beta; melanoma growth-stimulatory

C;Species: Homo sapiens (man)
C;Jate: 30-Sep-1991 #sequence revision 30-Sep-1991 #text_change 09-Jul-2004
C;Accession: JH0281; A35931; A38290; A60407
R;Tekamp-Olson, P.; Gallegos, C.; Bauer, D.; McClain, J.; Sherry, B.; Fabre J. Exp. Med. 172, 911-919, 1990
A;Title: Cloning and characterization of cDNAs for murine macrophage inflame A;Reference number: JH0200; MUID:90354792; PMID:2201751
A;Accession: JH0281 C.; Bauer, D.; McClain, J.; Sherry, B.; Fabre, M.; van

protei

A; Molecule type: mRNA A; Residues: 1-107 < TEK>

R; Iida, N.; Grotendorst, G.R.

Mol. Cell. Biol. 10, 5596-5599, 1990

A; Title: Cloning and sequencing of a new gro transcript
A; Reference number: A35931; MUID:90377259; PMID:2078213
A; Accession: A35931 A;Cross-references: UNIPROT:P19875; GB:X53799; NID:g34658; PIDN:CAA37808.1; PID:g34659

from activated human monocytes

A;Cross-references: GB:M57731; GB:M36964; NID:gl83626; PIDN:AAA63182.1; PID:gl83627 R;Habkill, S.; Peace, A.; Morris, J.; Sporn, S.A.; Anisowicz, A.; Lee, S.W.; Smith, Proc. Natl. Acad. Sci. U.S.A. 87, 7732-7736, 1990
A;Title: Identification of three related human GRO genes encoding cytokine function. A;Reference number: A38290; MUID:91017578; PMID:2217207 A; Molecule type: mRNA A; Residues: 1-107 < IID>

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Accession: A38290

A; Molecule type: mRNA A; Residues: 1-107 < HAS>

A;Cross-references: GB:M36820; NID:g183628; PIDN:AAA63183.1; PID:g183629 R;Sporn, S.A.; Eierman, D.F.; Johnson, C.E.; Morris, J.; Martin, G.; Lad J. Immunol. 144, 4434-4441, 1990 Ladner,

M.; Haskill

'n selective induction of novel genes sharing homolc

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A;Reference number: A60407; MUID:90257367; PMID:2341726
A;Accession: A60407
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2: uniprot_trembl:*
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                               This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the EN the European Bioinformatics Institute. There are no restruse by non-profit institutions as long as its content modified and this statement is not removed. Usage by and entities requires a license agreement (See http://www.isb-cr send an email to license@isb-sib.ch).
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PRINTS; PR00435; INTERLEUKIN8.
PRINTS; PR00437; SMALLCYTKCXC.
SMART; SM00199; SCY; 1.
                                                                                                                                                                                                                                  MEDLINE=95137691; PubMed=7835984;
Seow H.F., Yoshimura T., Wood P.R.,
"Cloning, sequencing, expression an
ovine interleukin-8.";
                                                                                                                                                                                                                                                                                                                  MEDIINE=95121931; PubMed=7821808;
Legastelois I., Greenland T., Arnaud P., Mornex J.F., Cord:
"Sequencing of the ovine interleukin-8-encoding cDNA using
polymerase chain reaction.";
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Mammalia; Eutheria;
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Pfam; PF00048; IL8; 1.
                                                                                                                                                                       unol. Cell Biol. 72:398-405(1994).

FUNCTION: II.-8 is a chemotactic factor that attracts neutrophils, basophils, and T-cells, but not monocytes. It is also involved in neutrophil activation. It is released from several cell types in response to an inflammatory stimulus.
                                                                                                                                                   SUBUNIT: Homodimer.
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SEQUENCE FROM N.A.
STRAIN=Mongrel; TISSUE=Jugular vein;
STRAIN=95114148; PubMed=7814650;
MEDLINE=95114148; PubMed=7814650;
Kukielka G.L., Smith W.C., Laroga G.J.,
Kukielka G.L., Smith W.C., Laroga G.J.,
                                                                                                                                                                                                                                                                                                                                                                                           01-FEB-1995
01-FEB-1995
05-JUL-2004
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P41324;
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Tsujimoto H., Hasegawa A., Furusawa
Hotta K., Suzuki K., Hirota Y.;
                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A.
MEDLINE=94010328; PubMed=7916715;
Ishikawa J., Suzuki S., Hotta K., Hir
"Cloning of a canine gene homologous
                                                                                                                                                                                                                                                                                                                                      Canis familiaris (Dog).
Bukaryota; Metazoa; Chordata; Mammalia; Eutheria; Carnivora;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CHAIN
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PRINTS; PR00437; SMALLCYTKCXC.
SMART; SM00199; SCY; 1.
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InterPro; IPR002473; C-X-C/Interlkn 8.
InterPro; IPR001811; Chemokine_IL8.
InterPro; IPR00189; CXC_chmkine_smll.
Pfam; PF00048; IL8; 1.
         SEQUENCE FROM
STRAIN-Beagle,
                                                                                                                                                                                                      TISSUE=Lymph node;
MEDLINE=95127913; PubMed=7827282;
                                                                                                                                                                                                                                                  encoding gene.";
Gene 131:305-306(1993).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PIR; S42496; S42496.
MEDLINE=97230298;
                                          J. Clin.
                                                 reperfusion
                                                                 "Interleukin-8
                                                                                                                                                                                                                              SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                Interleukin-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            90
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                                                                          Entman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
                                                                                                                                                Suzuki K., Hirota Y., ar cloning and expression 6:455-461(1994).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           OVFVKRAEKODP
                                          Invest.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          QAFLKRAEKQDP
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                                                                         Hughes B.J.,
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                                                                                                                                                                                                                                                                                                                                                                                (Rel. 31, Created)
(Rel. 31, Last sequence up
(Rel. 44, Last annotation
-8 precursor (IL-8) (CXCL8)
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36
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                    N.A.
                                                   gene induction in the vivo.";
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ine; Inflammatory response
22
By similarity.
101
Interleukin-8.
PubMed=9119462
                                         :89-103 (1995)
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; Pred. No. 2.6e
3; Mismatches
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By similarity.
; 40E8418B57C56A5B
                                                                                                                                                                                                                                                                                                                                        Craniata; Vertebrata; Euteleostomi; Fissipedia; Canidae; Canis.
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.6e-33;
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human interleukin-8-
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Ishikawa J.,
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RESULT 4
Q7YRB5
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Best Local Similarity
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EMBL; D14285; BAA03246.1; -.
EMBL; U10308; AAC48434.1; -.
EMBL; AF048717; AAC48134.1; -.
EMBL; AF048717; AAC48134.1; -.
HSSP; P10145; IIKM.
InterPro; IPR002473; C-X-C/Interlkn 8.
InterPro; IPR001811; Chemokine IL8.
InterPro; IPR001081; CXC chmkine smil.
Pfam; PF0048; IL8; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DISULFID
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Straubinger R.K., Straubinger A.F., Harter L., Jacobson R.H., Chang Y.-F., Summers B.A., Erb H.N., Appel M.J.;

"Borrelia burgdorferi migrates into joint capsules and causes an upregulation of interleukin-8 in synovial membranes of dogs experimentally infected with ticks.";

Infect. Immun. 65:173-1285(1997).

-i- FUNCTION: IL-B is a chemotactic factor that attracts neutrophils, basophils, and T-cells, but not monocytes. It is also involved in neutrophil activation. It is released from several cell types in response to an inflammatory stimulus.

-i- SUBCELLULAR LOCATION: Secreted.

-i- SUBCELLULAR LOCATION: Secreted.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PROSITE; PROOFIT; SMALL CYTOKINES CXC; 1.

Chemotaxis; Cytokine; Inflammatory response; Signal.

Cland 1 22

By similarity.

CHANIN 23 101

DISULFID 34 61

By similarity.

DISULFID 36 77

By similarity.

DISULFID 36 77

By similarity.
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                                                                                                                                                 01-OCT-2003 (TrEMBLrel.
01-OCT-2003 (TrEMBLrel.
01-MAR-2004 (TrEMBLrel.
SEQUENCE FROM N.A.
Yosida Y., Shoji Y.,
                                                                                                                                                                              Q7YRB5;
01-OCT-2003
                                           NCBI_TaxID=9739
                                                                                      Eukaryota; Metazoa;
                                                                                                        Tursiops truncatus
                                                                                                                      Name=IL-8
                                                                                                                                   Interlukin-8.
                                                                                                                                                                                                             Q7YRB5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRINTS; PR00436; INTERLEUKIN8. PRINTS; PR00437; SMALLCYTKCXC.
                                                             Tursiops
                                                                           Mammalia; Eutheria;
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                                                                                                                                                                                                                                                                                                                 OVFVKRAEKODP
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                                                                                                                                                                                                             PRELIMINARY;
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61 E
77 E
; 11280 MW;
                                                                        (Atlantic bottle-nosed dolphin).
; Chordata; Craniata; Vertebrata; Euteleostomi;
; Cetartiodactyla; Cetacea; Odontoceti; Delphinidae;
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   Endo
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26,
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H.
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Last sequence Last anno
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Pred. No. 4.6e-32;
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                                                                                                                                                 sequence update)
annotation update)
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    Sakai T.;
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Best Local S
Matches 62
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InterPro; IPR001811; Chemokine 100.
InterPro; IPR001089; CXC_chmkine_smll.
InterPro; IPR001089; CXC_chmkine_smll.
Pfam; PP00048; IL8; 1.
SMART; SM00199; SCY; 1.
SMART; SM00199; SCY; 1.
PROSITE; PS00471; SMALL CYTOKINES CXC; 1.
PROSITE; PS00471; 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
MEDLINE=94103307; PubMed=8276881;
Lin G., Pearson A.E., Scamurra R.W., Zhou Y., Baars
Weiss D.J., Murtaugh M.P.;
"Regulation of interleukin-8 expression in porcine
macrophages by bacterial lipopolysaccharide.";
J. Biol. Chem. 269:77-85(1994).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Yoshida Y., Shoji Y., Endo T., Itou T., Sakai Submitted (NOV-2002) to the EMBL/GenBank/DDBJ EMBL; AB096002; BAC61421.1; -. GO; GO:0005576; C:extracellular; IEA. GO; GO:0008099; F:chemokine activity; IEA. GO; GO:0006955; P:immune response; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      01-AUG-1991 (Rel. 19, Created)
01-AUG-1992 (Rel. 23, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
Interleukin-8 precursor (IL-8) (CXCL8) (Alveolar macrophage chemotactic factor I) (AMCF-I).
STRAIN=Yorkshire;
MEDLINE=91217086; PubMed=1850745;
                                                                                                                                                                                 "Molecular cloning of porcine alveolar macrophage-derived chemotactic factors I and II; identification of porcine II another intercrine-alpha protein"; piochemistry 31:10483-10490(1992).
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                                                                                                             REVISION TO Goodman R.B.
                                                                                                                                                                                                                                                                               Goodman R.B., Foster D.C., Forstrom J.W., Martin T.R.;
                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A., AND SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                          Submitted
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Mammalia; Eutheria;
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                                                                                              Submitted
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                                                                                                                                                                                                                                                                                                                                                      rissue=Lung;
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5; Mismatches
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Pred. No. 1.7e-31;
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Sus.
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RESULT 6
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Matches 61
BAC06611;
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InterPro; IPR001811; Chemokine IL8.
InterPro; IPR001089; CXC_chmkine_smll.
Pfam; PF000448; IL8; 1.
PRINTS; PR00436; INTERLEUKIN8.
PRINTS; PR00437; SMALLCYTKCXC.
SMART; SM00199; SCY; 1.
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EMBL; X61151; CAA43461.1; -.
EMBL; M99367; AAA92576.1; -.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Goodman
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SUBUNIT: Homodimer.
SUBCELLULAR LOCATION: Secreted.
TISSUE SPECIFICITY: Alveolar macrophages.
INDUCTION: By lipopolysaccharide (LPS).
SIMILARITY: Belongs to the intercrine alpha (chemokine
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A53096; A53096.
P10145; 1IKM.
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(TrEMBLrel.
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103
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Cetartiodactyla; Suina;
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3; Mismatches
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Pred. No. 2.
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ina; Suidae;
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Best Local :
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Frorstrom J., Martin T.,
"Molecular Cloning of Porcine Alveol
Chemotactic Factors I and II: Identi
Another Intercrine-a Protein.",
Biochemistry 31:10483-10490(1992).
EMBL, AB057440; BAC06611.1;
SEQUENCE 103 AA; 11633 MW; 9FEOE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   01-DEC-1992 (Rel. 24, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
Interleukin-8 precursor (IL-8) (CXCL8) (Neutrophil attractant/activation protein-1) (NAP-1) (Permeability
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P19874;
                                                                                                                                                                                                                                                                                                                                                                                                                                chemoattractant protein-1
in spleen cells.";
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Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Butheria; Lagomorpha; Leporidae; Oryctolagus.
NCBI_TaxID=9986;
                                                                                                                                                                                                                                                                                                                                                                                                                          in spleen cells.
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Yoshimura T., Yuhki N.;
"Neutrophil attractant/activation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STRAIN=New Zealand white; TISSUE=Spleen; MEDLINE=91225489; PubMed=2026877;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A.
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Shimanuki S., Kobayashi E., Awata T.,
"Genomic structure of the porcine Into
of a microsatellite marker within into
Anim. Genet. 33:470-471(2002).
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MEDLINE=93041741; PubMed=1420165;
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SUBUNIT: Homodimer.
SUBCELLULAR IOCATION: Secreted
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Pred. No. 2.
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Matches 59
                                                                                     SEQUENCE FROM N.A.
SETABLINGER A.F., Simpson K.W., Straubinger A.F., Submitted (JUN-1999) to the EMBL/GenBank/DDBJ databases.

Submitted (JUN-1999) to the EMBL/GenBan
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28-FEB-2003
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CONFLICT
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InterPro; IPR001811; Chemokine IL8.
InterPro; IPR001089; CXC chmkine smll.
Pfam; PF00048; IL8; 1.
PRINTS; PR00436; INTERLEUKIN8.
PRINTS; PR00437; SMALLCYTKCXC.
SMART; SM00199; SCY; 1.
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This SWISS-PROT entry is copyright. It is produced throubetween the Swiss Institute of Bioinformatics and the the European Bioinformatics Institute. There are no reuse by non-profit institutions as long as its conten
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryota; Metazoa;
Mammalia; Eutheria;
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Chemotaxis; Cytokine; Direct proti
Inflammatory response; Signal.
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PIR; I46871; I46871.
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QIFLKRAEQQE 100
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3 (Rel. 41, Created)
3 (Rel. 41, Last sequ
4 (Rel. 44, Last anno
1-8 precursor (IL-8)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        101 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
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34
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101
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83.1%;
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annotation update)
L-8) (CXCL8).
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By similarity.
By similarity.
K -> I (in Ref.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
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Pred. No. 8.9e-30;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 y similarity.
y similarity.
'C -> I (in Ref. 2).
152B110C43AD8726 (
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RESULT
IL8_MAC
         STITION AND DESCRIPTION OF THE PROPERTY OF THE
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Best Local S
Matches 55
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P51495;
01-OCT-1996
01-OCT-1996
05-JUL-2004
Inflammation 19:313-331(1995).

-- FUNCTION: IL-8 is a chemocartic factor that attracts neutrophil basophils, and T-cells, but not monocytes. It is also involved neutrophil activation. It is released from several cell types i response to an inflammatory stimulus (By similarity).

-- SUBUNIT: Homodimer (By similarity).

-- SUBCRLIULAR LOCATION: Secreted.

-- SIMILARITY: Belongs to the intercrine alpha (chemokine CxC)
                                                                                                                                                                                               SPECIES=M.mulatta; TISSUE=Blood;
MEDLINE=95355132; PubMed=7628861;
Minnerly J.C., Baganoff M.P., Deppeler C.L., K
Widomski D.L., Fretland D.J., Bolanowski M.A.;
"Identification and characterization of rhesus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SIGNAL
CHAIN
DISULFID
DISULFID
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     entities
or send a
                                                                                                                                                                                                                                                                                                                                                                                             SPECTES=M.mulatta, and M.nemestrina; TISSUE-Blood; MEDLINE-96003435; PubMed-7561102; Villinger F.J., Brar S.S., Mayne A.E., Chikkala N. "Comparative sequence analysis of cytokine genes f
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Macaca nemestrina (Pig-tailed macaque).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Cercopithecidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EMBL; AP158598; AAD40323.1; -.
HSSP; P10145; IIKM.
InterPro; IPR002473; C-X-C/Interlkn_8.
InterPro; IPR001811; Chemokine ILB.
InterPro; IPR001089; CXC_chmkine_smll.
Pfam; PF00048; ILB; 1.
                                                                                                                                                                                                                                                                                                              SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                             nonhuman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Cercopithecinae; Macaca.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Macaca mulatta (Rhesus macaque), and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Name=IL8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Interleukin-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Chemotaxis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PROSITE; PS00471;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SMART;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRINTS; PR00436; INTERLEUKIN8.
PRINTS; PR00437; SMALLCYTKCXC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  modified and this statement is not removed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                61
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       s requires a license agreement (S an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity
                                                                                                                                                                                                                                                                                                            FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6 (Rel. 34, Createu,
)6 (Rel. 34, Last sequence upda
)4 (Rel. 44, Last annotation up
)7 ~~~cursor (IL-8) (CXCL8).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    101 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            00471; SMALL_CYTOKINES_CXC; Cytokine; Inflammatory res
                                                                                                                                                                                                                                                                                                                                                       155:3946-3954 (1995).
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Pred. No. 1e-2
11; Mismatches
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By similarity.
; 690D97F13EF79170
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                                                                                                                                                                                                                                             Keller
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It is also involved in
several cell types in
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                                                                                                                                                                                                                                               S.R.,
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RESULT 10
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GO; GO:0005576; C:extracellular; IEA.
GO; GO:000556; C:extracellular; IEA.
GO; GO:0008009; F:chemokine activity; IEA.
GO; GO:0006955; P:immune response; IEA.
InterPro; IPR002473; C-X-C/InterPkn 8.
InterPro; IPR001811; Chemokine_II8.
InterPro; IPR001881; Chemokine_II8.
FRANTS; IRR01181; CHEMOKINE_SM11.
PRANTS; PR00436; INTERLEUKIN8.
RPRINTS; PR00436; INTERLEUKIN8.
RPRINTS; PR00437; SMALLCYTKCXC.
RMART; SM00199; SCY; 1.
R PROSITE; PS00471; SMALL CYTOKINES_CXC; 1.
SEQUENCE 101 AA; 11080 MW; E34878111854009A CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local S
Matches 53
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EMBL; U1985; AAA86713.1; -.
EMBL; S78855; AAA80141.2; -.
HSSP; P10145; 2ILB.
InterPro; IPR002473; C-X-C/Interlkn B.
InterPro; IPR001081; Chemokine ILB.
InterPro; IPR001089; CXC_chmkine_smll.
Pfam; PF00048; ILB; 1.
                                                                                                                                                                                                                                                                                                                                                                                            01-JUN-2003
01-JUN-2003
01-OCT-2003
                                                                                                                                                                                             Cappelli K., Verini-Supplizi A., Silvestrelli Submitted (NOV-2002) to the EMBL/GenBank/DDBJ EMBL; AY184956; AAO37764.1; - HSSP; P10145; 2IL8
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DISULFID
SEQUENCE
                                                                                                                                                                                                                                                                                                             Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                             Equus caballus (Horse)
                                                                                                                                                                                                                                                                                                NCBI_TaxID=9796;
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Q866R3
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PRINTS; PR00437; SMALLCYTKCXC.
SMART; SM00199; SCY; 1.
                                                                                                                                                                                                                                                                                                                                                                             Interleukin
                                                                                                                                                                                                                                                                                                                                                                                                                                            Q866R3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          This SWISS-PROT entry is copyright. It is produced through a c between the Swiss Institute of Bioinformatics and the EMBL the European Bioinformatics Institute. There are no restrict use by non-profit institutions as long as its content is modified and this statement is not removed. Usage by and for entitles requires a license agreement (See http://www.isb-sib.or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Chemotaxis; Cytokine; SIGNAL 1 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PROSITE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               family.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PS0047); SMALL CYTOKINES CXC; 1.
is; Cytokine; Inflammatory response;
1 22 By similarity.
23 101 Interleukin-8.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   VFVKRAEKODP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           KFVKRAENQNP
                                                                                                                                                                                                                                                                                                                                                                                        3 (TrEMBLrel.
3 (TrEMBLrel.
3 (TrEMBLrel.
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nilarity 74.6%;
Conservative 1:
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101
61
77
11320
                                                                                                                                                                                                                                                                                                          Chordata; Craniata; Vertebrata;
Perissodactyla; Equidae; Equus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   72
                                                                                                                                                                                                                                                                                                                                                                                          24,
25,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MW.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; Score 299; DB 1; 1; Pred. No. 3.1e-26; 11; Mismatches 7;
                                                                                                                                                                                                                                                                                                                                                                                       Created)
Last sequence update)
Last annotation updat
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By similarity.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      101
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      A
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databases.
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tions on its
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AADO2808

AADO2808

ID AADO2808;
AC AADO2808;
DT 02-MAR-2004 (TrEMBLrel. 2;
DT 02-MAR-2004 (TrEMBLrel. 2;
DT 02-MAR-2004 (TrEMBLrel. 2;
DT 02-MAR-2004 (TrEMBLrel. 27;
DE Interleukin-8 (Fragment).
OS Bos taurus (Bovine).
OC Bukaryota; Mar---
OC Mamma-1;
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               InterPro; IPR002473; C-X-C/Interlkn_8.
InterPro; IPR001811; Chemokine_IL8.
InterPro; IPR001089; CXC_chmkine_smll.
Pfam; PF00048; IL8; 1.
PRINTS; PR00436; INTERLEUKIN8.
PRINTS; PR00437; SMALLCYTKCXC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Q71UR4
Q71UR4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SMART;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                in commercial populations of Mamm. Genome 12:219-226(2001) EMBL; AF061521; AAD02808.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Heaton M.P., Laegreid W.W., Beattie "Identification and genetic mapping expressed in epithelial cells."; Mamm. Genome 10:128-133(1999).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A.
MEDLINE=99122841; PubMed=9922392;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDLINE=21189989; PubMed=11252171;
Heaton M.P., McKown C.G., Grosse W
Laegreid W.W.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Bovinae; Bos
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Bos taurus (Bovine).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     05-JUL-2004
05-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Interleukin-8 haplotype structure from nucleotide sequence variation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NCBI_TaxID=9913;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   05-JUL-2004
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                                                                                                                                                                                                                                                                                                                                                                                             Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SM00199; SCY; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      91
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  54;
                                                                                                                                                                                                                                                                                                                      PKFIKELRVIESPPHCENSEIIVKLTNGNEVCLNPKEKWVQKVVQVFVKRAEKQDP
                                                                                                                                                                                                                                                                                               PKFIKELRVIESGPHCENSEIIVKLTNGNEVCLNPKEKWVQKVVQVFVKRAEKODP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               56 AA; 6474 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (TrEMBLrel. 27,
(TrEMBLrel. 27,
(TrEMBLrel. 27,
                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Chordata; Craniata; Vertebrata; Euteleostomi; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
                                                                                                                                                                                                                                                                                                                                                                                                           73.7%;
98.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            72
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76.1%;
                                                                                              27,
27,
                                                                                         Created)
Last sequence update)
Last annotation updat
                                                                                                                                                                                                                                                                                                                                                                                      Score 288; DE
Pred. No. 2.9e
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                        0;
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Pred. No. 6.8e
6; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US cattle.";
                                                                                                                                                                                       PRT;
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of bovine
                                                                                                                                                                                     56
                                                                                                                                                                                                                                                                                                                                                                          DB 2,
2.9e-25;
1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Keen J.E.,
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.8e-26;
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                                                                                           update)
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                                                                                                                                                                                                                                                                                                                                                                                                                                  56;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            genes
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                                                                                                                                                                                                                                                                                               56
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Chordata; Craniata; Vertebrata; Cetartiodactyla; Ruminantia; Pec

Pecora;

Euteleostomi;

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RESULT OF CALAGE OF CALAGE
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Best Local (
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05-UUL-2004 (TrEMBLrel. 27, C

05-UUL-2004 (TrEMBLrel. 27, L

05-UUL-2004 (TrEMBLrel. 27, L

Interleukin 8 (Fragment).
                                                                                   Pfam; PF
PRINTS;
PRINTS;
SMART; SI
                                                                                                                                                 Submitted (FEB-1992) to the EMBL/GenBank/DDBJ EMBL; Z11686; CAA77745.1; ... InterPro; IPR002473; C-X-C/Interlkn 8. InterPro; IPR001811; Chemokine IL8. InterPro; IPR00189; CXC_chmkine_smll. PF6m; PF00048; IL8; 1.
                                                                                                                                                                                                                                                                                                                                                                       TISSUE=Kidney;
King C.H., Gordon G.S.,
Submitted (FEB-1992) to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Heaton M.P., Laegreid W.W., Beattie "Identification and genetic mapping expressed in epithelial cells.", Mamm. Genome 10:128-133(1999).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Kusner D.J., Luebbers E.L.,
King C.H., Sedor J.R.;
"Cytokine- and LPS-induced
mesangial cells.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE=91374977; PubMed=1895676;
Kusner D.J., Luebbers E.L., Nowinski
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Eukaryota; Metazoa; Chordata; Mammalia; Eutheria; Primates;
                    PROSITE; PS00471; SMALL_CYTOKINES_CXC;
NON_TER 1 1
NON_TER 97 97
                                                                                                                                                                                                                                                                                                              TISSUE=Kidney;
                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Kidney
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TISSUE=Kidney;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.
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Laegreid W.W.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens (Human)
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                                                                                ; PR00436; INTERLEUKIN8.; PR00437; SMALLCYTKCXC.
SM00199; SCY; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                55;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      56 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         39:1240-1248(1991)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
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    10897
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98.2%;
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the EMBL/GenBank/DDBJ databases.
  MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  synthesis
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Pred. No. 2.9e-25;
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Catarrhini; Hominidae;
  09996E89319F4972
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C.W., Smith T.P.L., of bovine chemokine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            R.J., Konieczkowski M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  of interleukin-8 from
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genes
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Query Match
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Matches 51
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Best Local S
Matches 51
ILB:HUMAN STANDARD; PRT; 99 AA.

P10145; Q96RG6; Q9C077;
01-MAR-1989 (Rel. 10, Created)
01-MAR-1989 (Rel. 10, Last sequence update)
01-OCT-2004 (Rel. 45, Last annotation update)
01-OCT-2004 (Rel. 45, Last annotation update)
Interleukin-8 precursor (IL-8) (CXCL8) (Monocyte-derived neutrophil chemotactic factor) (MDNCF) (T-cell chemotactic factor) (NEUTOPHIL CHEMOTACTIC (Granulocyte chemotactic protein 1) (NAP-1) (Protein 3-10C) (Granulocyte chemotactic protein (GCP-1) (Monocyte derived neutrophil activating peptide)
(MONAP) (Emoctakin) (Contains MDNCF-a (ILB/NAP1 form I) (GCP/IL-8)
protein IV); IL-8(1-77) (MDNCF-b) (ILB/NAP1 form II) (GCP/IL-8)
protein IV); IL-8(1-77); IL-8(6-77) (Lymphocyte-derived neutrophil-
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NON TER
SEQUENCE
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Kidney Int. 39:1417
EMBL; Z11686; CAA77745.1;
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MEDLINE=91374977;
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King C.H., Gordon G.S.,
"cDNA cloning of human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  King C.H., Sedor J.R.;
"Cytokine- and LPS-induced synthesis
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Mammalia; Eutheria;
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Homo sapiens (Human).
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(TrEMBLrel. 27, Last sequence update)
(TrEMBLrel. 27, Last annotation update)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    10897 MW; 09996E89319F4972
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Pred. No. 6.9e-25;
.0; Mismatches 6
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interleukin
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A Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,

X Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,

X Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

X Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

X Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

X Diatchenko L., Warusina K., Fermer A.A., Rubin G.M., Hong L.,

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X Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

X Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

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X Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,

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X Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
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                                                                                                                                                                                                                                                                                                                                                            TISSUE=Lung;
MEDLINE=22388257;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A. Jang J.S., Kim B.E
                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM
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MEDLINE=89309826;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Kowalski J., Denhardt D.T.;
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Lew W., Appella E., Kung H., Leonard E.J., Oppenheim J.J.;
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factor (MDNCF) and the induction of MDNCF mRNA by interleukin
tumor necrosis factor.";
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Schmid J., Weissmann C.;
"Induction of mRNA for a serine protease
like protein in mitogen-stimulated human
J. Immunol. 139:250-256(1987).
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Mammalia; Eutheria;
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) (IL8/NAP1 form I
(IL8/NAP1 form IV)
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Primates;
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http://pga
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II) (GCP/IL-8 protein I) (ser-IL-8)72); IL-
(GCP/IL-8 protein V); IL-8(8-77) (IL8/NAP1
VI); IL-8(9-77) (IL8/NAP1 form VI) (GCP/IL-8
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Catarrhini; Hominidae;
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leukocytes.";
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REPRESENTATION OF THE PROPERTY OF SERVICE SERVICES SERVIC

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IL-8(7-77); IL-8(8-77) AND IL-8(9-77), MEDLINE=89231715; PubMed=2523Rn1 van Damme
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Yoshimura T., Rodinson. Leonard E.u., Showalter S.D., Skeel A., Leonard E.u., Showalter forms of monocyte-derived neutrophil "Three forms of monocyte-derived neutrophil distinguished by different lengths of the ammol Immunol. 26:87-93(1989).
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"Purification of granulocyte chemotactic
N-terminal sequence heterogeneity simila."
                                                                                                                                                                                  SEQUENCE OF IL-8(7-77);
                                                                                                                        "The
                                                                                                                              wan Damme J., Kamparc Millems J., Billiau A.;
                                                                                                                                                                                                                                                                                                                             activating factor Biochem. Biophys.
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                                                                                                 processed
                                                                                                              thromboglobulin:
                                                                                                                                                              MEDLINE=91006326;
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and a neutrophil chemotactic factor but r
human synovial cells and fibroblasts.";
Biochem. J. 259:585-588(1989).
                                                                                                                                                                                                                                                                                              MEDLINE=88097462;
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MEDLINE=89246368; E
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Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus
Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
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                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE OF 28-59
MEDLINE=88106502;
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MEDLINE=89279141; I
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                                                                                                                                                Damme
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c. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002)
                                                                                                                        neutrophil-activating
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                                                                                    20:2113-2118(1990)
                                                                                                                                             PubMed=2145175;
part M., Coning
                                                                                                                                                                                                                                                                                                                              amino acid sequencing of NAF, a produced by monocytes.";
Res. Commun. 149:755-761(1987).
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lymphocyte derived neutrophil
                                                MDNCF-A; IL-8(1-77); IL-8(6-77); AND N-TERMINAL PROCESSING.
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      peptide/interleukin-8
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